

National Institutes of Health

Office of Financial Management

Royalties Semiannual Report -- Payments due to Inventors by IC -- Period ending: March 2022

CC

\$47,893.29

Franaszek, Marek

(b) (3) (A), (b) (4),
(b) (6)

Gladwin, Mark T.

Huang, Hui-Yang

Iordanescu, Gheorghe

Jerebko, Anna K

Jin, Jianjian

Kwak, Jin Tae

Lay, Nathan Stephan

(b) (4)

Reinhard Roth, Holger

Roy, David

Sabatino, Marianna V.

Stroncek, David F.

Summers, Ronald

Tsehay, Yohannes Kebede

Turkbey, Evrim

Wood, Bradford J

Xu, Sheng

Yao, Jianhua

CDC

\$387,543.00

Ades, Edwin W.

(b) (3) (A), (b) (4),
(b) (6)

Aloisio, Carol H.

Anderson, Burt E.

Anderson, Larry J.

Bagarozzi, Dennis Anthony

Barclay, Leslie

Beck, Eric T.

Bellini, William J.

Berman, LaShondra

Bishop, Henry
Black, Charlotte M.
Black, Jodi B.
Bobick, Thomas G.
Boyer, Anne E.
Burns, Cara C.
Butera, Salvatore T.
Campagnoli, Raymond
Cantis, Douglas M.
Carlone, George M.
Castro, Arnold R.
CDC
Chang, Gwong-Jen J.
Chhabra, Preeti
Cox, Nancy J.
Crill, Wayne D.
Cromeans, Theresa
Damon, Inger K.
Davis, Brent S.
Dawson, Jacqueline E.
Devos, Joshua R.
Dietrich, EB Gabrielle
Dolan, Marc C.
Donis, Ruben O.
Donlan, Rodney M.
Edgell, Herbert D.
Emery, Shannon L.
Erdman, Dean D.
Esposito, Joseph J.
Esswein, Eric J.
Fields, Howard A.
Fields, Patricia
Folks, Thomas M
Freeman, Charlotte

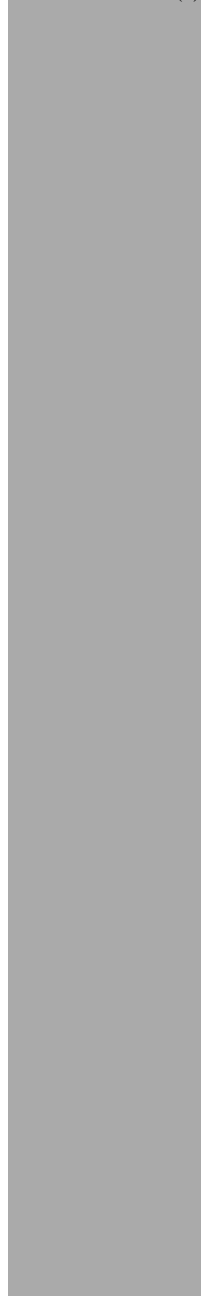
(b) (3) (A), (b) (4),
(b) (6)

Frey, Garrett S.
Galland, Gale G.
Garcia Lerma, Jose Gerardo
Gasebom, Shane Dallas
Gentsch, Jon R.
George, Robert W.
Glass, Roger I.
Goldstein, Jason Marc
Granade, Timothy C.
Gregoricus, Nicole
Guo, Zhu
Hanlon, Cathleen
Harmon, Maurice
Hart, John C.
Heneine, Walid M.
Hierholzer, John C.
Hughes, Holly R
Hummer, Jon
Janssen, Robert
Jiang, Baoming
Katz, Jacqueline M.
Kendal, Alan P.
Kennedy, Eugene R.
Kent, Rebekah J.
Kew, Olen M.
King, Grant W.
Kinney, Claire Huang
Kinney, Richard M.
Kirby, Wayne
Klimov, Alexander I.
Komar, Nicholas
Kulkarni, Pramod
Leaumont, Collette F.
Lewis, Daniel M.

(b) (3) (A), (b) (4), (b)
(6)

Lindstrom, Stephen
Loftin, Lamorris
Lopez, Carlos
Maher, Kaija
Mark W. Reimer, (b) (6)
Maupin, Gary O.
McDougal, Steve
McKenzie, Eugene A.
McQuiston, John R.
Miller, Arthur L.
Moore, Deborah D.
Morrill, William E.
Munoz-Jordan, Jorge L.
Murga, Ricardo
Murphy, William J.
(b) (4)
O'Connor, Steven
Olson, Victoria Ann
Otten, Ronald
Pallansch, Mark A.
Panella, Nicholas A.
Parekh, Bharat S.
Pau, Chou-Pong
Pellett, Philip E.
Peret, Teresa C.
Perez, Victor L.
Phillips, Donald
Pope, Victoria
Qi, Chaolong
Quay, Jacqueline
Quinn, Conrad P.
Rains, Richard
Raudabaugh, William M.
Reimer, Charles B.

(b) (3) (A), (b) (4), (b)
(6)



Robertson, Shirley
Roehrig, John T.
Rupprecht, Charles E.
Russell, Harold
Saluzzo, Jean-Francois
Sammons, Deborah L.
Sampson, Jacquelyn S.
Sanchez, Anthony
Santiago, Gilberto
Schmechel, Detlef
Shaw, Jing
Shu, Bo
Smith, Jean S.
Smith, Jerome P.
Snawder, John E.
Snyder, Jay L.

(b) (3) (A), (b) (4),
(b) (6)

(b) (4)

Stephenson, Mark R.
Stevens, James
Stockdale, Carol
Striley, Cynthia A.
Summer, John
Sunderman, Carl B.
Tamin, Azibi
Tharpe, Jean A.
Thibodeaux, Brett A.
Tong, Suxiang
Tsou, Cecelia
Tuchman, Donald P.
Vergne, Edgardo
Vinje, Jan
Volkwein, Jon C.
Wagar, Nicholas
Walls, Harriet

Wang, Yuhuan
Wang, Zhongde
Wei, Xierong
Wells, Thomas
Wilson, Jason Ray
Wood, Gerry O.
Wu, Xianfu
Yager, Pamela
Yamamoto, Masahiro
Yang, Chunfu (Dustin)
Yang, Hua
Yang, Yong
York, Ian Arthur
Zhou, Zhiyong

(b) (3) (A), (b)
(4), (b) (6)

CIT
Cheng, Ruida
Malley, James
McAuliffe, Matthew
Wagner, Lynne M

(b) (3) (A), (b)
(4), (b) (6)

FDA
Donnelly, Raymond P.
Falgout, Barry
Markoff, Lewis
Petricoin, Emanuel

\$9,117.33

(b) (3) (A), (b)
(4), (b) (6)

NCATS
Alimardanov, Asaf R
Auld, Douglas S.
Austin, Christopher P.
Boxer, Matthew
Chen, Yu
Cheng, Chih-Chien (Ken)
Deng, Tao
Grewal, Gurmit S
Hasson, Samuel A.

\$169,042.63

(b) (3) (A), (b) (4),
(b) (6)

Huang, Junfeng
Huang, Wenwei
Huang, Xiuli
Inglese, James
Jadhav, Ajit P.
Jang, Sung-Wook
Jiang, Jian-kang
Jovanovic, Vukasin
Lee, Arthur
Liu, Ke
Maloney, David
Marugan, Juan J.
McKew, John C.
Patel, Paresma Rasiklal
Patnaik, Samarjit
Sanderson, Philip Edward
Shamim, Khalida
Shen, Min
Simeonov, Anton
Singec, Ilyas
Skoumbourdis, Amanda P.
Southall, Noel T.
Svaren, John
Swaroop, Manju
Tawa, Gregory
Thomas, Craig J.
Urban, Daniel
Xiao, Jingbo
Xu, Miao
Xu, Xin
Yang, Shyh-Ming
Zheng, Wei
NCI
Aaronson, Stuart A.

(b) (3) (A), (b) (4),
(b) (6)

\$5,296,744.71

(b) (3) (A), (b) (4), (b)
(6)

Abrams, Scott I
Acquavella, Nicolas
Adachi, Yoshifumi
Adhya, Sankar Lal
Alewine, Christine
Alimandi, Maurizio
Allegra, Carmen
Aloia, Amanda
Ambrose, Zandrea

(b) (4)

Antignani, Antonella
Aplan, Peter D.
Austin, Faye C.
Azimi, Nazli
Barrett, James Carl
Barry, Todd
Baskar, Sivasubramanian
Bera, Tapan K
Bergamaschi, Cristina
Bernardo, Marcelino L.
Berzofsky, Jay A.
Beyer, Rachel K. B.
Bonner, William M
Bonomi, Carrie A.
Borgel, Suzanne D.

(b) (4)

Boyd, Michael R.
Brash, Douglas
Brinkmann, Ulrich
Broadt, Trevor L.
Buck, Christopher
Burgess, Rebecca C.
Bustin, Michael
Cafri, Gal

(b) (3) (A), (b) (4),
(b) (6)

Caplen, Natasha

(b) (4)

Chabner, Bruce A

Chang, Kai

Chang, Nancy T.

Chatterjee, Deb K

Chen, Weizao

Chen, Xin

Cheng, Sheue-Yann

Chien, Christopher

Choyke, Peter L

Chung, Jae Wook

Colcher, David

Collins, Norman Keith

Columbus, John Milton

Conrads, Thomas P

Copeland, Amy

Copeland, Neal

Copeland, Terry D.

Costantino, Nina

Court, Donald

Cowan, Kenneth H.

Crowl, Robert

(b) (4)

Custer, Mary

Deniger, Drew

Dimitrov, Dimiter S.

Doroshov, James H.

Dougherty, Kelly

Dubois, Sigrid

Dudley, Mark

Eil, Robert Langland

Ellis, Hilary Moyed

Ellmore, Nelson

(b) (3) (A), (b) (4),
(b) (6)

Emmert-Buck, Michael R.

Esposito, Dominic

(b) (6) Donald J. Giard

Felber, Barbara K.

Feldman, Steven A

Feng, Mingqian

Feng, Yang

Figg, William D

Finch, Paul W.

Fisher, Amanda G.

Fitzgerald, David J.

Fitzgerald, Peter C.

Fowler, Daniel

Franchini, Genoveffa

Fry, Terry

Gallo, Robert C.

Gao, Wei

Garges, Susan

Gartner, Suzanne

Gattinoni, Luca

Gazdar, (b) (6) Adi

Gelboin, (b) (6) Harry

(b) (4)

Gerwin, Brenda I.

Gillette, William K.

Goldman, Carolyn

Gonzalez, Frank J.

Good, Meghan

Gottesman, Michael M.

Green, Jeffrey E

Greer, Matthew D.

Greiner, John W.

Gress, Ronald E.

Gros, Alena

(b) (3) (A), (b) (4),
(b) (6)

Grose, Carissa L.
Guerin, Theresa
Gupta, Shanker Lal
Hahn, Beatrice
Hamilton, Thomas C
Hanada, Kenichi
Hand, Patricia H.
Harmon, Stephanie Anne
Harris, Curtis C.
Haso, Waleed
Hassan, Raffit
Hathcock, Karen
Hinrichs, Christian S.
Ho, Eric Chun Hei
Ho, Mitchell
Hodes, Richard J
Hodge, Deborah
Hodge, James W.
Holderfield, Matthew T.
Hollingshead, Melinda G.
Hopkins, Ralph F.
Hwu, Patrick
Ise, Tomoko
Isenberg, Jeffrey
Islam, S M Rafiqul
Issaq, Haleem J.
Jainchill, John L.
Jakubczak, John L.
Janini, George
Jeffers, Michael
Jelev, Dontcho
Jelinek, Ivett
Jenkins Copeland, Nancy A

(b) (3) (A), (b) (4), (b)
(6)

(b) (4)

Jensen, Roy A.

Jiang, Guojian

Jin, Benjamin Yongzu

(b) (4)

Johnson, Bruce E

Johnston, (b) (6) Patrick G.

Jung, Sun-Hee

Jung, Unsu

Kaczmarczyk, Stanislaw

Kalyanaraman, Vaniambadi S.

KAUR, SUKHBIR

Kawakami, Yutaka

Kaye, Frederic J

Keseling, Beverly G

Kewalramani, Vineet N

Khleif, Samir N.

Kilbourne, Jennifer Mariner

Kim, Heungnam

Kim, Jung-Hwan

Kim, Sanghyun

Kim, Tae Sung

King, Charles R.

Kirnbauer, Reinhard

Kishton, Rigel Joseph

Klee, Claude

Klemen, Nicholas Donald

Kobayashi, Hisataka

Kochenderfer, James N

Kouprina, Natalay Y

Kozlov, Serguei

Kraus, (b) (6) Matthias

Krishna, Sri

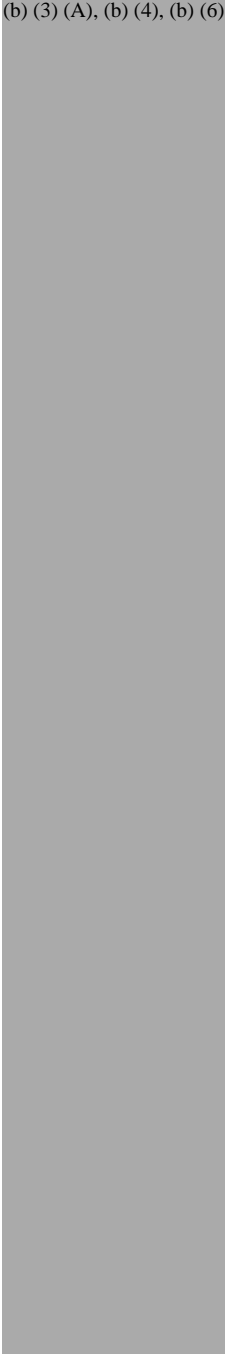
Lacal, Juan C.

Lalani, Almin

(b) (3) (A), (b) (4),
(b) (6)

Landry, Joseph W.
Lantz, Valerie A
Lapointe, Rejean
Larionov, Vladimir L
LaRochelle, William
Laszlo, Gloria
Lee, Byungkook
Lee, E-Chiang
Lee, Kyung S
Levin, Noam
Li, Dan
Li, Shipeng
Liang, Chi-Ming
Lin, Ying-Wei
Liotta, Lance
Liu, Pentao
Lo, Winifred Margaret
Lorenzi, Philipp
Lori, Franco C.
Lowery, Frank
Lowy, Douglas R.
Lu, Yong-Chen
Luciano, Michael
Lusso, Paolo
Mackall, Crystal L
Maeda, Takuya
Makrigiannis, Andrew P.
Malekzadeh, Parisa
Markham, Phillip D.
Martin, Thomas
Mason, Llewellyn H.
Matsui, Toshimitsu
Maxhimer, Justin B
McMahon, James

(b) (3) (A), (b) (4), (b) (6)



Mehta, Arpita I
Merlino, Glenn T.
Mertan, Francesca
Minna, John D.
Misteli, Thomas
Mitra, Guatam (George)
Mitsunaga, Makoto
Morgan, Richard A.
Mori, Toshiyuki
Muchmore, Brian P.
Nagata, Satoshi
Nakaigawa, Noboru
Nani, Roger R.
Noskov, Vladimir
Nuti, Marianna
O'Brien, Thomas R
O'Keefe, Barry
O'Sullivan, Theresa
Oh, SangKon
Oie, (b) (6) Herbert K
Onda, Masanori
Oppenheim, Joost J
Orentas, Rimas J.
Ortaldo, John R.
Ozols, Robert F
Palena, Claudia
Palmer, Douglas
Paria, Biman
Park, Jung-Eun
Parkhurst, Maria
Parks, Wade P.
Pasetto, Anna
Pass, Harvey I
Pastan, Ira H

(b) (3) (A), (b) (4), (b)
(6)

Pastrana, Diana V
Patel, Shashankkumar
Pavlakis, George N
Phung, Yen T.
Pierce, Jacalyn
Pinto, Peter A
Ponraj, Prabakaran
Popovic, Mikulas
Porter-Gill, Patricia A.
Prokunina-Olsson, Ludmila
Qasba, Pradman
Qin, Haiying
Rader, Christoph
Ramakrishnan, Boopathy
RAY, UPASANA
Reddel, Roger R.
Reddy, E. Premkumar.
Rein, Alan
Reitz, Jr., Marvin S.
Restifo, Nicholas P.
Reynolds, Della Anne
Rhim, Johng S.
Risinger, John
Robbins, Keith
Robbins, Paul F
Roberson, Brenda D.
Roberts, David D.
Roberts, Veronica Ann
Roden, Richard B
Rogakou, Efthimia P
Roop, Dennis R.
Rosenberg, Steven A.
Rosenwald, Andreas
Roukos, Vasileios

(b) (3) (A), (b) (4), (b)
(6)

Roy, Krishnendu K.
Rubin, Jeffrey S
Rudloff, Udo
Saddig, Christiane
Salahuddin, Syed Z.
Sarn gadharan, Mangalasseril
Sarnovsky, Robert
Sato, Kazuhide
Sato, Noriko
Sausville, Edward
Schiller, John T
Schlom, Jeffrey
Schlomer, Jerome J
Schmidt, Laura S.
Schnermann, Martin
Segal, David M.
Shaban, Samir H.
Sharan, Shyam K
Shaw, George M
Simone, Nicole L
Slape, Christopher I.
Snader, Kenneth M
Somerville, Robert P.
Sonalee Gaur, Sonia
Soppet, Dan
SOTO-PANTOJA, DAVID
Soutoglou, Evi
Specht, Suzanne I.
Spiese, Paul J
St. Croix, Brad D.
Staudt, Louis M
Steinert, (b) (6) Peter M.
Stevanovic, Sanja
Stump, Ann

(b) (3) (A), (b) (4), (b)
(6)

Swaminathan, Srividya
Tamaoki, Naritaka
Terabe, Masaki
Todaro, George J.
Topalian, Suzanne L.
Tran, Eric
Tsang, Kwong-Yok
Turbyville, Thomas Jefferson
Turkbey, Ismail B.
Ueda, Kazumitsu

(b) (4)

(b) (4)

Uren, Aykut
Valentin, Antonio L.
Vande Woude, George
Veenstra, Timothy D
Vishnuvajjala, B. Rao
Vizcardo Sakoda, Raul Eduardo
Vodnala, Suman Kumar
Waldmann, Thomas A.
Wang, Ling-Mei
Wang, Qiong
Wang, Rong-fu
Wang, Ruixue
Wang, Xiaohong
Wang, Yan
Warfield, Paul
Warming, Soren

(b) (4)

Waugh, David
Weinstein, John N.
Wiestner, Adrian
Wilkins, Kenneth L.
Willingham, Mark C.

(b) (3) (A), (b) (4), (b)
(6)

Wilson, Wyndham H.
Wong-Staal (b) (6)
Wood, Lauren V
Wu, Carl
Wu, Yongzhong
Wunderlich, John
Xiang, Laiman
Xiao, Xiaodong
Xie, Yueqing
Xu, Junfen
Yang, De
Yang, James Chung-Yin
Yang, Ke
Yao, Xin
Yim, Sun Hee
Ying, Tianlei
Yoseph, Rami
Yoshimura, Teizo
Young, Howard A.
Yu, Daiguan
Yu, Zhiya
Yuspa, Stuart H.
Zacharakis, Nikolaos
Zaharoff, David
Zbar, Berton
Zhang, Ling
Zhang, Xianyu
Zhang, Yifan
Zhang, ZhenHua
Zhao, Chihao
Zheng, Zhi-Min g (Thomas)
Zheng, Zhili
Zhu, Jianwei
Zhu, Zhongyu

(b) (3) (A), (b) (4), (b) (6)

NEI

\$995,939.92

Amaral, Juan A
Bharti, Kapil
Bunce, George E.
Bush, Ronald Avery
Charles, Steven Thomas
Chen, Yu Holly
Colosi, Peter C.
Davis, (b) (6) Janine A
English, Milton A
Ferris III, Frederick L.
Gentleman, Susan B.
Hotaling, Nathan
Khristov, Vladimir R.
Kinoshita, (b) (6) Jin H
Li, Tiansen
Maminishkis, Arvydas
National Inst. of Standards and Tech.
NIST
Redmond, Thomas M.
Ruchi, Fnu
Shimada-Ishill, Hiroko
Sieving, Paul Albert
Smith, James Cecil
Swaroop, Anand
Wei, Lisa Lining
Wiley, Henry Ernest
Zeng, Yong

(b) (3) (A), (b) (4),
(b) (6)

NHGRI

\$111,258.26

Biesecker, Leslie G.
Chandler, Randy J.
Gahl, William A.
Gispert-Sanchez, Suzana
Goldin, Ehud M.

(b) (3) (A), (b) (4),
(b) (6)

Huizing, Marjan
Klootwijk, Enriko D.
Lindhurst, Marjorie J.
Manoli, Eirini
Mijares, Lilia A.
Motabar, Omid
Nicoli, Elena-Raluca
Nussbaum, Robert L.
Pavan, William J
Segre, Julia A.
Sidransky, Ellen
Smith, Stephanie N.
Tifft, Cynthia J.
Venditti, Charles P.
Westbroek, Wendy

NHLBI

Adelstein, Robert
Arai, Andrew Ernest

(b) (4)

Boehm, Manfred
Cannon, Richard O.
Cecchini, Sylvain
Chen, Guibin
Cherkasova, Elena A.
Childs, Richard W.
Combs, Christian A.
Derbyshire, John Andrew
Ding, Chuan-Tian
Finkel, Toren
Fitzhugh, Courtney
Gladwin, Mark T.
Hsieh, Matthew M.
Hsu, Li - Yueh
Hunter, Christian J

(b) (3) (A), (b)
(4), (b) (6)

\$230,139.55

(b) (3) (A), (b) (4),
(b) (6)

Igarashi, Takehito	(b) (3) (A), (b) (4), (b) (6)
Jacobs, Matthew James	
(b) (4)	
Kawamoto, Sachiyo	
Kelley, Christine A	
Kim, Kee Kwang	
Knepper, Mark A	
Kotin, Robert M.	
Larochelle, Andre	
Lee, Seung-Rock	
Leonard, Alexis	
Leonard, Warren J.	
Li, Lina	
Lin, Jian-Xin	
Liu, Chengyu	
(b) (4)	
McVeigh, Elliott R	
Mitra, Suman	
Nezafat, Reza	
Nirenberg, (b) (6) Marshall	
Rhee, Sue Goo	
Smith, Richard H.	
Tisdale, John	
(b) (4)	
Urabe, Masashi	
(b) (4)	
Walsh, Frank	
Wynberg, Jason	
Yang, Yanqin	
Zhu, Jun	
NIA	\$23,247.56

Bagrov, Alexei
Doyle, Maire E
Egan, Josephine M
Falco, Geppino
Fedorova, Olga V.
Goetzl, Edward
Greig, Nigel H
Hodes, Richard J
Holloway, Harold
Ingram, Donald
Kim, Dong Seok
Ko, Minoru S.
Lakatta, Edward G.
Lee, Sung-Lim
Li, Yazhou
Luo, Weiming
Matarin Jimenez, Maria Del Mar
Monti, Manuela
Perry, Tracy Ann
Sharova, Lioudmila V.
Shaw, Karen
Shin, Soojung
Singleton, Andrew B.
Stanghellini, Ilaria
Tweedie, David
Yu, Qian-sheng
Zalzman, Michal
NIAAA
Cinar, Resat
Iyer, Malliga R.
Kunos, George I
NIAID
Abisola Abiona, Olubukola Mary

(b) (3) (A), (b) (4),
(b) (6)

\$92,185,402.05

(b) (3) (A), (b) (4), (b) (6)

Adachi, Akio
Akahata, Wataru
Akin, Cem
Barry, Clifton E
Baxa, Ulrich
Bennink, Jack R.
Bennuru, Sasisekhar
Bermingham, Alison
Best, Sonja M.
Biacchesi, Stephanie
Blaney, Jr., Joseph E.
Boyington, Jeffrey C.
Brock, Linda G.
Broder, Christopher
Buchholz, Ursula
Bukreyev, Alexander
Caldwell, Harlan D
Chanock, (b) (6) Robert
Chen, Lei
Chen, Man
Chen, Zhao Chun
Cheng, Cheng
Chesebro, Bruce
Cheung, Yiu Chong Gordon
Chuang, Gwo-Yu
Cohen, Jeffrey
Coligan, John
Collins, Peter L.
Connors, Mark
Conrad, John T.
Corbett, Kizzmekia
Cox, Edward E.
Cox, Josephine H

(b) (3) (A), (b) (4), (b)
(6)

(b) (4)

Datta, Sandip Kumar
Davey, Richard T.
David, Alexandre
De Wit, Emmie
DeBuysscher, Blair Lynn
DeVico, Angela M.
DiNapoli, Joshua M.
Doms, Robert W.
Druz, Aliaksandr A.
Earl, Patricia L.
Eisenbarth, (b) (6) George
Emerson, Suzanne U.
Fauci, Anthony
Feldmann, Heinrich Ulrich
Fink, Doran
Folks, Thomas M
Fuerst, Thomas R.
Garboczi, David
Gautam, Rajeev
Georgiev, Ivelin S.
Germain, Ronald N.
Gerner, Michael Y
Gorman, Jason
Graham, Barney
Green, Lisbeth Kim
Gupta, Pradeep K.
Hanley, Kathryn
Harriman, Gregory R.
Haynes, Barton F.
Hirsch, Vanessa M.
Hoshino, Yasutaka
Hsu, Su-Cheng Dana
Hu, Haijing
Huang, Jinghe

(b) (3) (A), (b) (4),
(b) (6)

(b) (4)

Hutchinson, Geoffrey Bain

(b) (4)

Ishida, Elise H.

Ishizuka, Andrew S

Jahrling, Peter B.

Jeang, (b) (6) Kuan-Teh

Johnson, Reed F.

Joyce, Michael G.

Justement, Jesse S

Kanekiyo, Masaru

Kang, Byong Ha

Kapikian, (b) (6) Albert Z

Kim, Yong Chan

Kinter, Audrey L

Kirshenbaum, Arnold

Kong, Wing-pui

Korty, Patricia E.

Krzewski, Konrad

Kubofcik, Joseph

Kunimoto, Dennis Y.

Kwon, Young Do

Kwong, Peter D.

Lai, Ching-Juh

Lantz, Larry

Le Nouen, Cyril J.

Ledgerwood, Julie

Lee, Ha Na

Lee, Richard E.

Leonard, John M.

Leppla, Stephen H.

Leysath, Clinton E.

Li, Weizhe

Liang, Bo

(b) (3) (A), (b) (4), (b) (6)

Lobanenkov, Victor
Long, Eric O.
Loukinov, Dmitri
Lubick, Kirk
Lugli, Enrico
Lujan, Hugo D
Luongo, Cindy L.
Mackett, Michael
Mangalampalli, Venkata R.
Marques, Adriana
Martin, Malcolm A
Marzi, Andrea Maria
Mascola, John R.
McCarty, Thomas Charles
Mchugh, Rebecca S
McLellan, Jason Scott
McTamney, Patrick
Merritt, Joshua S.
Metcalf, Dean D
Moayeri, Mahtab
Moin, Syed M.
Morrison, Richard P.
Morse III, Herbert
Moss, Bernard
Mowatt, Michael
Mulangu, Sabue
Munir, Shirin
Murphy, Brian R.
Muyembe-Tamfun, Jean-Jacques
Myles, Ian
Nabel, Gary J
Nash, Theodore
[REDACTED]
Nguyen, Hanh T.

(b) (3) (A), (b) (4),
(b) (6)

(b) (4)

Nishimura, Yoshiaki
Nutman, Thomas B.
Nutt, Anne S.
OFEK, GILAD A
Ohara, Junichi
Ou, Li
Pancera, Marie L.
Paragas, Jason J.
Paul, (b) (6) William E.
Pegu, Amarendra
Pesnicak, Lesley M
Phillips, Damilola D.
Pomerantsev, Andrei P
Porgador, Angel
Powell, Douglas M
Prescott, Joseph
Purcell, Robert H.
Rabson, Arnold B.
Rajagopalan, Sumati
Rao, Srinivas
Robertson, Shelly J.
Roederer, Mario
(b) (4)
Rudicell, Rebecca S.
Rundlet, Emily J
(b) (4)
Rutledge, Rosamond A.
Sadjadpour, Reza
Sastry, Mallika
Schwartz, Richard M.
Shevach, Ethan M
Shi, Wei
Shingai, Masashi
Shukla Bajpai, Priyanka

(b) (3) (A), (b) (4), (b)
(6)

Siebenlist, Ulrich
Skiadopoulos, Mario
Slayden, Richard A
Smith, Geoffrey L
Sosnovtsev, Stanislav V
Soto, Cinque
Srivatsan, Sanjay R.
Stanley, Daphne Amanda
Stephens, Geoffrey L.
Stewart-Jones, Guillaume BE
Strober, Warren
Sullivan, Nancy J
Sun, Peter D

(b) (3) (A), (b) (4), (b)
(6)

(b) (4)

(b) (4)

Theodore, (b) (6) Theodore S

(b) (4)

Thomas, Paul V.
Tian, Linjie
Torian, Udana M
Tsybovsky, Yaroslav
United States Army

(b) (4)

Van Galen, Joseph
Voss, Oliver
Vostrov, Alexander A
Wang, Lingshu
Wehrly, Kathryn
Wei, Chih-Jen
Whitehead, Stephen S.
Whittle, James R R
Willey, Ronald L.
Wu, Xueling
Wyatt, Linda S.

Wycuff, Diane L.

(b) (4)

YANG, YONGPING

Yang, Zhi-Yong

Yassine, Hadi M.

Yewdell, Jonathan W.

Zhang, Baoshan

Zhang, Yi

Zheng, Anqi

Zhou, Tongqing

Zhu, Jiang

Zhu, Yaling

Zou, Zhongcheng

NIAMS

Brydges, Susannah Diane

Chu, Emily Yin

Foster, Brian Lee

Kastner, Daniel L

Kinet, Jean-Pierre

Kong, Heidi H.

Meylan, Francoise

Nociti, Francisco

Plotz, Paul H.

Raben, Nina

Rao, Mahendra S

Siegel, Richard

Somerman, Martha J

Song, Yun-Jeong

Thumbigere-Math, Vivek

(b) (4)

NIBIB

Chen, Xiaoyuan

Parekh, Sapun

Shroff, Hari

(b) (3) (A), (b) (4),
(b) (6)

\$18,413.21

(b) (3) (A), (b)
(4), (b) (6)

\$37,024.93

(b) (3) (A), (b)
(4), (b) (6)

Weiss, Orit Jacobson
York, Andrew G.

(b) (3) (A), (b)
(4), (b) (6)

NICHD

\$128,625.82

Blithe, Diana L.
Bridson, William E.
Buonanno, Andres
Chou, Janice Yang
Chumakov, Ekaterina
Crouch, Robert J.
Dai, Lily Zhongdong
Dawid, Igor
Deligiannidis, Kristina M Galarneau
Dey, Anup K
Dressler, Gregory R.
Forlino, Antonella
Hertz, Roy
Huang, Freesia
Huang, Kuo-Ping
Karavanov, Alex A.
Karavanov, Irina
Kingfield, Joyce G.
Klein, David C.
Kohler, Peter O
Kubler-Kielb, Joanna
Marini, Joan Carol
McDonald, John
Moffett, John R
Namboodiri, Aryan M
Nieman, Lynnette K.
Ozato Dawid, Keiko
Robbins, John B.
Romero, Roberto
Roseboom, Patrick

(b) (3) (A), (b)
(4), (b) (6)

(b) (4)

Schneerson, Rachel
Vullhorst, Detlef
Weller, Joan
Westphal, Heinrich
Woodgate, Roger

(b) (3) (A), (b)
(4), (b) (6)

NIDA

\$31,333.43

Backman, Cristina M
Cao, Jianjing
Cyriac, George C.
Grundt, Peter
Kumar, Vivek
Newman, Amy H.
Rice, Kenner C.
Shaik, Anerbasha
Tomac, Andreas C

(b) (3) (A), (b)
(4), (b) (6)

(b) (4)

Wise, Roy A
Zangen, Abraham

NIDCD

\$18,010.54

Bush, Ronald Avery
Chen, Zhong
Cheng, Hui
Griffith, Andrew J.
Labay, Valentia
Makishima, Tomoko
Montcouquiol, Mireille
Saleh, Anthony
Selbie, W. Scott
Sieving, Paul Albert
Song, Hongman
Van Waes, Carter
Zeng, Yong

(b) (3) (A), (b)
(4), (b) (6)

NIDCR

\$81,260.25

Adler, Jon Elliot

(b) (3) (A), (b) (4),
(b) (6)

Akiyama, Steven
Burbelo, Peter D.
Chiorini, John A.
Elkin, Michael
Erlenbach, Isolde
Fisher, Larry
Gronthos, Stan
Hoon, Mark
Hsu, Su-Cheng Dana
Iadarola, Michael J.
Kaludov, Nikola
Keith, Jerry M
Kleinman, Hynda
Kulkarni, Ashok
Leppla, Stephen H.
Merkel, Todd J.
Miura, Masako
Moayeri, Mahtab
Ohshima, Toshio
Park, Sukjoon
Pasquale, Giovanni Di
Philp, Deborah
Quinn, Conrad P.
Robey, Pamela G.
Rosovitz, Mary Jo
Ryba, Nicholas
Seo, Byoung-Moo
Shi, Songtao
Singh, Yogendra
Siraganian, Reuben
Yamada, Kenneth
Yamada, Susan Sleeper
Yang, Xiaoming

(b) (3) (A), (b) (4),
(b) (6)

NIDDK

\$35,391.43

Daly, (b) (6) John W
Dean, Jurrien
East, Iain
GAO, ZHANGUO
Ge, Kai
Goldsmith, Paul K
Jacobson, Kenneth A
Lee, Ji-Eun
Melman, Artem
Oral, Elif A.
Proia, Richard L
Ramirez, Delia
Rehermann, Barbara
Rosshart, Stephan Patrick
Schechter, Alan N.
Shiloach, Joseph
Spiegel, Allen M.
(b) (4)
Taylor, Simeon
Tosh, Dilip K.

NIEHS

(b) (4)
Beckley, Amy J.
Bradbury, Jennifer Alyce
Cidlowski, John A.
DiAugustine, Richard P
Ehrenschaft, Marilyn I
Fang, Yi
Graves, Joan P.
Li, Xiaoling
Mason, Ronald P.
Moore, Rickie
Negishi, Masahiko
Prasad, Rajendra

(b) (3) (A), (b) (4),
(b) (6)

\$14,410.64

(b) (3) (A), (b)
(4), (b) (6)

Teng, Christina T.
Wilson, (b) (6) Samuel H.
Zeldin, Darryl C

(b) (3) (A), (b)
(4), (b) (6)

NIMH

\$178,565.56

Cohen, Robert M.
Dold, George R.
Drevets, Wayne C
Eiden, Maribeth V.
Furey, Maura L.
Ginns, Edward I.
Jacobowitz David, (b) (6)
Kowalak, Jeffrey A.
LaMarca, (b) (6) Mary
Mahan, Lawrence C.
Manji, Husseini K.
Markey, (b) (6) Sanford P.
Masuda, Junichi
Morgan, Newlin T.
Unsworth, Edward J.
Wilson, Carolyn A.
Winsky, Lois
Ye, Daniel
Zarate, Carlos A.

(b) (3) (A), (b) (4),
(b) (6)

NINDS

\$108,426.91

Badger, John D.
Bemben, Michael A.
Bharti, Kapil
Brady, (b) (6) Roscoe O
Dobersen, Michael J
Gainer, Harold
Hallett, Mark
Hammer, Jeffrey A.
Hou, Jean
Hsu, Yite

(b) (3) (A), (b) (4),
(b) (6)

Humbert, Ianessa A
Lee, Myoung Hwa
Li, Wenxue
Lowell, Soren Y
Ludlow, Christy L.
Major, Eugene O
McVittie, Loris D.
Messam, Conrad A
Miranda, Pedro
Monsma, Jr., Frederick J.
Murray, Gary J
Nath, Avindra
Noronha, Antonio B
Oldfield, (b) (6) Edward H.
Pluta, Ryszard M
Poletto, Christopher J.
Quarles, (b) (6) Richard H.
Roche, Katherine W.
Roth, Yiftach
Sibley, David R.
Steiner, Joseph Perry
Wang, Chunxin
Warach, Steven J.
Youle, Richard J.
NINR
Barr, Taura L.

(b) (3) (A), (b) (4), (b)
(6)

(b) (4)

NIH Patent Licensing Activities
CC
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
CC
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
CC
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-047-2021/0	Turkbey, Evrim	(b) (4)	Canon Medical Systems USA, Inc.	23-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-047-2021/0	Wood, Bradford J	(b) (6)	Canon Medical Systems USA, Inc.	23-Dec-21						
L-047-2021/0	Xu, Sheng		Canon Medical Systems USA, Inc.	23-Dec-21						

Note: L-047-2021/0 split between CC; NCI

NIH Patent Licensing Activities
CC
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-028-2018/1	Lay, Nathan Stephan	(b) (4)	Scanmed LLC	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-028-2018/1	Reinhard Roth, Holger	(b) (6)	Scanmed LLC	4-Jan-22						
L-028-2018/1	Summers, Ronald		Scanmed LLC	4-Jan-22						
L-028-2018/1	Tsehay, Yohannes Kebede		Scanmed LLC	4-Jan-22						

Note: L-028-2018/1 split between CC; CIT; NCI

L-143-2007/2	Gladwin, Mark T.	(b)	Hope Pharmaceuticals	18-Jan-22						
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Note: L-143-2007/2 split between CC; NHLBI; NIDDK

L-159-2007/2	Gladwin, Mark T.	(b)	Hope Pharmaceuticals	18-Jan-22						
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Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS

L-111-2006/0	CC		ICAD Inc	19-Jan-22						
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Note: L-111-2006/0 split between CC; CIT; NIDCD

NIH Patent Licensing Activities

CC
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-107-2015/2	Jin, Jianjian	(b) (4)	Iovance Biotherapeutics. Inc.	10-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-107-2015/2	Sabatino, Marianna V.	(4)	Iovance Biotherapeutics. Inc.	10-Feb-22						
L-107-2015/2	Stroncek, David F.	(b) (6)	Iovance Biotherapeutics. Inc.	10-Feb-22						
<i>Note: L-107-2015/2 split between CC; NCI</i>										
L-145-2019/0	Gladwin, Mark T.	(b) (6)	Globin Solutions, Inc	10-Feb-22						
<i>Note: L-145-2019/0 split between CC; NHLBI; NIDDK; NINDS</i>										

NIH Patent Licensing Activities
CC
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-122-2017/0	Kwak, Jin Tae	(b) (4)	Koninklijke Philips N.V.	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-122-2017/0	Summers, Ronald	(b) (6)	Koninklijke Philips N.V.	1-Mar-22						
L-122-2017/0	Wood, Bradford J		Koninklijke Philips N.V.	1-Mar-22						
L-122-2017/0	Xu, Sheng		Koninklijke Philips N.V.	1-Mar-22						
<i>Note: L-122-2017/0 split between CC; NCI</i>										
L-111-2006/0	Franaszek, Marek	(b) (4)	ICAD Inc	3-Mar-22						
L-111-2006/0	Huang, Hui-Yang	(b) (6)	ICAD Inc	3-Mar-22						
L-111-2006/0	Iordanescu, Gheorghe		ICAD Inc	3-Mar-22						
L-111-2006/0	Jerebko, Anna K		ICAD Inc	3-Mar-22						
L-111-2006/0	(b) (4)		ICAD Inc	3-Mar-22						
L-111-2006/0	Roy, David		ICAD Inc	3-Mar-22						
L-111-2006/0	Summers, Ronald		ICAD Inc	3-Mar-22						
L-111-2006/0	Yao, Jianhua		ICAD Inc	3-Mar-22						
<i>Note: L-111-2006/0 split between CC; CIT; NIDCD</i>										
L-028-2018/1	CC		Scanmed LLC	28-Mar-22						
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										
					\$188,973.16	\$26,199.93	\$215,173.09		\$47,893.29	\$167,279.80

NIH Patent Licensing Activities
 CDC
 October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-178-2021/0	Kinney, Claire Huang	(b) (4)	Takeda Vaccine, Inc.	1-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-178-2021/0	Kinney, Claire Huang	(b) (6)	Takeda Vaccine, Inc.	1-Oct-21						
L-102-2019/4	Rupperecht, Charles E.		BELVITUNIPHARM	4-Oct-21						
L-102-2019/4	Wu, Xianfu		BELVITUNIPHARM	4-Oct-21						
L-175-2013/0	Chang, Gwong-Jen J.		D-VET Sar1	14-Oct-21						
L-180-2013/4	Chang, Gwong-Jen J.		nBios International, Inc.	14-Oct-21						
L-225-2017/0	Chang, Gwong-Jen J.		nBios International, Inc.	14-Oct-21						
L-225-2017/0	Davis, Brent S.		nBios International, Inc.	14-Oct-21						
L-225-2017/0	Roehrig, John T.		nBios International, Inc.	14-Oct-21						
L-225-2017/0	Thibodeaux, Brett A.		nBios International, Inc.	14-Oct-21						
L-167-2021/1	Folks, Thomas M		Sandoz Pty Ltd	14-Oct-21						
L-167-2021/1	Garcia Lerma, Jose Gerardo		Sandoz Pty Ltd	14-Oct-21						
L-167-2021/1	Heneine, Walid M.		Sandoz Pty Ltd	14-Oct-21						
L-167-2021/1	Janssen, Robert		Sandoz Pty Ltd	14-Oct-21						
L-167-2021/1	Otten, Ronald		Sandoz Pty Ltd	14-Oct-21						
L-167-2021/1	CDC		Sandoz Pty Ltd	14-Oct-21						
L-134-2014/0	Anderson, Larry J.	(b) (4)	Millipore Corporation	18-Oct-21						
L-134-2014/0	Hierholzer, John C.	(b) (6)	Millipore Corporation	18-Oct-21						
L-134-2014/0	Tsou, Cecelia		Millipore Corporation	18-Oct-21						
L-134-2014/1	Anderson, Larry J.		Millipore Sigma	18-Oct-21						
L-134-2014/1	Hierholzer, John C.		Millipore Sigma	18-Oct-21						
L-134-2014/1	Tsou, Cecelia		Millipore Sigma	18-Oct-21						
L-150-2014/0	Maher, Kaija		Millipore Corp.	18-Oct-21						
L-150-2014/0	Pallansch, Mark A.		Millipore Corp.	18-Oct-21						
L-150-2014/1	Maher, Kaija		Millipore Sigma	18-Oct-21						
L-150-2014/1	Pallansch, Mark A.		Millipore Sigma	18-Oct-21						
L-155-2014/0	Freeman, Charlotte		Millipore Corp.	18-Oct-21						
L-155-2014/0	Pallansch, Mark A.		Millipore Corp.	18-Oct-21						
L-155-2014/1	Freeman, Charlotte		Millipore Sigma	18-Oct-21						
L-155-2014/1	Pallansch, Mark A.		Millipore Sigma	18-Oct-21						
L-157-2014/1	Anderson, Larry J.		Millipore Corp.	18-Oct-21						
L-157-2014/1	Tsou, Cecelia		Millipore Corp.	18-Oct-21						
L-157-2014/2	Anderson, Larry J.		Millipore Corp.	18-Oct-21						
L-157-2014/2	Tsou, Cecelia		Millipore Corp.	18-Oct-21						
L-160-2014/0	Harmon, Maurice		Millipore Corp.	18-Oct-21						
L-160-2014/0	Kendal, Alan P.		Millipore Corp.	18-Oct-21						

L-160-2014/0	Stockdale, Carol	(b) (4)	Millipore Corp.	18-Oct-21	(b) (3) (A), (b) (4), (b) (6)
L-160-2014/0	Walls, Harriet	(b) (6)	Millipore Corp.	18-Oct-21	
L-160-2014/1	Harmon, Maurice		Millipore Sigma	18-Oct-21	
L-160-2014/1	Kendal, Alan P.		Millipore Sigma	18-Oct-21	
L-160-2014/1	Stockdale, Carol		Millipore Sigma	18-Oct-21	
L-160-2014/1	Walls, Harriet		Millipore Sigma	18-Oct-21	
L-112-2021/0	Folks, Thomas M		Laurus Generics, Inc.	18-Oct-21	
L-112-2021/0	Garcia Lerma, Jose Gerardo		Laurus Generics, Inc.	18-Oct-21	
L-112-2021/0	Heneine, Walid M.		Laurus Generics, Inc.	18-Oct-21	
L-112-2021/0	Janssen, Robert		Laurus Generics, Inc.	18-Oct-21	
L-112-2021/0	Otten, Ronald		Laurus Generics, Inc.	18-Oct-21	
L-167-2021/1	Folks, Thomas M		Sandoz Pty Ltd	19-Oct-21	
L-167-2021/1	Garcia Lerma, Jose Gerardo		Sandoz Pty Ltd	19-Oct-21	
L-167-2021/1	Heneine, Walid M.		Sandoz Pty Ltd	19-Oct-21	
L-167-2021/1	Janssen, Robert		Sandoz Pty Ltd	19-Oct-21	
L-167-2021/1	Otten, Ronald		Sandoz Pty Ltd	19-Oct-21	
L-112-2018/0	CDC		Life Technologies	20-Oct-21	

NIH Patent Licensing Activities
 CDC
 November 2021

License	Inventor	Inventor		Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC	
		Share %	Licensee								
L-220-2013/0	Frey, Garrett S.	(b) (4)	DASH Connector Technology, Ing.	9-Nov-21	(b) (3) (A), (b) (4), (b) (6)						
L-220-2013/0	King, Grant W.	(b) (6)	DASH Connector Technology, Ing.	9-Nov-21							
L-220-2013/0	Miller, Arthur L.		DASH Connector Technology, Ing.	9-Nov-21							
L-220-2013/0	Rains, Richard		DASH Connector Technology, Ing.	9-Nov-21							
L-220-2013/0	Sunderman, Carl B.		DASH Connector Technology, Ing.	9-Nov-21							
L-015-2014/0	McDougal, Steve		Columbia University	9-Nov-21							
L-070-2016/1	Sanchez, Anthony		Emergent Biosolutions	9-Nov-21							
<i>Note: L-070-2016/1 split between CDC; NIAID</i>											
L-167-2018/0	Aloisio, Carol H.		Southern Biotechnology	16-Nov-21							
L-167-2018/0	Black, Charlotte M.		Southern Biotechnology	16-Nov-21							
L-167-2018/0	Galland, Gale G.		Southern Biotechnology	16-Nov-21							
L-167-2018/0	Moore, Deborah D.		Southern Biotechnology	16-Nov-21							
L-167-2018/0	Phillips, Donald		Southern Biotechnology	16-Nov-21							
L-167-2018/0	Reimer, Charles B.		Southern Biotechnology	16-Nov-21							
L-167-2018/0	Wells, Thomas		Southern Biotechnology	16-Nov-21							
L-162-2013/0	Snyder, Jay L.		E.D. Bullard Co.	17-Nov-21							
L-162-2013/0	Wood, Gerry O.		E.D. Bullard Co.	17-Nov-21							
L-205-2013/1	Cox, Nancy J.		University of Florida Research Foundatio	17-Nov-21							
L-205-2013/1	Donis, Ruben O.		University of Florida Research Foundatio	17-Nov-21							
L-205-2013/1	Katz, Jacqueline M.		University of Florida Research Foundatio	17-Nov-21							
L-205-2013/1	Klimov, Alexander I.		University of Florida Research Foundatio	17-Nov-21							
L-125-2014/1	CDC		ZeptoMetrix Corp.	17-Nov-21							

L-329-2014/0	Bishop, Henry	(b) (4)	Fuller Laboratories	17-Nov-21	(b) (3) (A), (b) (4), (b) (6)
L-357-2014/1	CDC		ZeptoMetrix Corp.	17-Nov-21	
L-171-2015/0	CDC		Fuller Laboratories	17-Nov-21	
L-241-2017/0	CDC		ZeptoMetrix Corporation	17-Nov-21	
L-127-2019/0	CDC		ZeptoMetrix Corporation	17-Nov-21	
L-148-2019/0	Erdman, Dean D.	(b) (4)	ZeptoMetrix Corporation	17-Nov-21	
L-148-2019/0	Tamin, Azibi	(b) (6)	ZeptoMetrix Corporation	17-Nov-21	
L-148-2019/0	Tong, Suxiang		ZeptoMetrix Corporation	17-Nov-21	
L-164-2019/0	CDC		ZeptoMetrix Corporation	17-Nov-21	
L-255-2020/0	Bobick, Thomas G.	(b) (4)	Reese Wholesale	17-Nov-21	
L-255-2020/0	Cantis, Douglas M.	(b) (6)	Reese Wholesale	17-Nov-21	
L-255-2020/0	Edgell, Herbert D.		Reese Wholesale	17-Nov-21	
L-255-2020/0	McKenzie, Eugene A.		Reese Wholesale	17-Nov-21	
L-004-2021/0	CDC		ZeptoMetrix Corporation	17-Nov-21	
L-222-2021/0	Burns, Cara C.		Anhui Zhifei Longcom Biopharmaceutical C	22-Nov-21	
L-222-2021/0	Campagnoli, Raymond		Anhui Zhifei Longcom Biopharmaceutical C	22-Nov-21	
L-222-2021/0	Kew, Olen M.		Anhui Zhifei Longcom Biopharmaceutical C	22-Nov-21	
L-222-2021/0	Shaw, Jing		Anhui Zhifei Longcom Biopharmaceutical C	22-Nov-21	
L-087-2015/0	Damon, Inger K.		Chengdu Boao Bio-tech Co.	23-Nov-21	
L-087-2015/0	Hanlon, Cathleen		Chengdu Boao Bio-tech Co.	23-Nov-21	
L-087-2015/0	Wu, Xianfu		Chengdu Boao Bio-tech Co.	23-Nov-21	

NIH Patent Licensing Activities
 CDC
 December 2021

License	Inventor	Inventor		Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
		Share %	Licensee							
L-197-2020/1	Folks, Thomas M	(b) (4)	CIPLA LIMITED	2-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-197-2020/1	Garcia Lerma, Jose Gerardo	(b) (6)	CIPLA LIMITED	2-Dec-21						
L-197-2020/1	Heneine, Walid M.		CIPLA LIMITED	2-Dec-21						
L-197-2020/1	Janssen, Robert		CIPLA LIMITED	2-Dec-21						
L-197-2020/1	(b) (4)		CIPLA LIMITED	2-Dec-21						
L-197-2020/1	Otten, Ronald		CIPLA LIMITED	2-Dec-21						
L-139-2014/1	Bellini, William J.		VMRD, Inc.	3-Dec-21						
L-139-2014/1	Esposito, Joseph J.		VMRD, Inc.	3-Dec-21						
L-139-2014/1	Summer, John		VMRD, Inc.	3-Dec-21						
L-236-2015/1	Ades, Edwin W.		ENTvantage Diagnostics, Inc.	7-Dec-21						
L-236-2015/1	Carlone, George M.		ENTvantage Diagnostics, Inc.	7-Dec-21						
L-236-2015/1	O'Connor, Steven		ENTvantage Diagnostics, Inc.	7-Dec-21						
L-236-2015/1	Russell, Harold		ENTvantage Diagnostics, Inc.	7-Dec-21						
L-236-2015/1	Sampson, Jacquelyn S.		ENTvantage Diagnostics, Inc.	7-Dec-21						
L-236-2015/1	Tharpe, Jean A.		ENTvantage Diagnostics, Inc.	7-Dec-21						
L-014-2020/0	McDougal, Steve		Premier Medical USA Corporation	7-Dec-21						

L-014-2020/0	Parekh, Bharat S.	(b) (4)	Premier Medical USA Corporation	7-Dec-21
L-014-2020/0	Pau, Chou-Pong	(b) (6)	Premier Medical USA Corporation	7-Dec-21
L-014-2020/0	Wei, Xierong		Premier Medical USA Corporation	7-Dec-21
L-023-2020/0	Chang, Gwong-Jen J.		The Native Antigen Company	9-Dec-21
L-023-2020/0	Crill, Wayne D.		The Native Antigen Company	9-Dec-21
L-023-2020/0	Davis, Brent S.		The Native Antigen Company	9-Dec-21
L-023-2020/0	Hughes, Holly R		The Native Antigen Company	9-Dec-21
L-212-2014/0	Granade, Timothy C.		Maxim Biotech, Inc.	13-Dec-21
L-212-2014/0	Parekh, Bharat S.		Maxim Biotech, Inc.	13-Dec-21
L-212-2014/0	Pau, Chou-Pong		Maxim Biotech, Inc.	13-Dec-21
L-225-2017/0	Chang, Gwong-Jen J.		InBios International, Inc.	13-Dec-21
L-225-2017/0	Davis, Brent S.		InBios International, Inc.	13-Dec-21
L-225-2017/0	Roehrig, John T.		InBios International, Inc.	13-Dec-21
L-225-2017/0	Thibodeaux, Brett A.		InBios International, Inc.	13-Dec-21
L-187-2018/1	Gentsch, Jon R.		Beijing Cell-fusion Biotechnology Co., L	14-Dec-21
L-187-2018/1	Glass, Roger I.		Beijing Cell-fusion Biotechnology Co., L	14-Dec-21
L-187-2018/1	Jiang, Baoming		Beijing Cell-fusion Biotechnology Co., L	14-Dec-21
L-187-2018/1	Saluzzo, Jean-Francois		Beijing Cell-fusion Biotechnology Co., L	14-Dec-21
L-187-2018/1	Wang, Yuhuan		Beijing Cell-fusion Biotechnology Co., L	14-Dec-21
L-143-2014/3	Roehrig, John T.		VecTOR Test Systems	15-Dec-21
L-197-2013/1	Cox, Nancy J.		Life Technologies Corporation	21-Dec-21
L-197-2013/1	Klimov, Alexander I.		Life Technologies Corporation	21-Dec-21
L-197-2013/1	Lindstrom, Stephen		Life Technologies Corporation	21-Dec-21
L-197-2013/1	Loftin, Lamorris		Life Technologies Corporation	21-Dec-21
L-235-2013/0	Berman, LaShondra		Life Technologies Corp.	21-Dec-21
L-235-2013/0	Emery, Shannon L.		Life Technologies Corp.	21-Dec-21
L-235-2013/0	Lindstrom, Stephen		Life Technologies Corp.	21-Dec-21
L-235-2013/0	Shu, Bo		Life Technologies Corp.	21-Dec-21
L-142-2014/2	Aloisio, Carol H.		Life Technologies Corporation	21-Dec-21
L-142-2014/2	Black, Charlotte M.		Life Technologies Corporation	21-Dec-21
L-142-2014/2	Galland, Gale G.		Life Technologies Corporation	21-Dec-21
L-142-2014/2	Moore, Deborah D.		Life Technologies Corporation	21-Dec-21
L-142-2014/2	Phillips, Donald		Life Technologies Corporation	21-Dec-21
L-142-2014/2	Reimer, Charles B.		Life Technologies Corporation	21-Dec-21
L-142-2014/2	Wells, Thomas		Life Technologies Corporation	21-Dec-21
L-195-2014/0	Beck, Eric T.		CTK Biotech, Inc.	21-Dec-21
L-195-2014/0	Kinney, Claire Huang		CTK Biotech, Inc.	21-Dec-21
L-195-2014/0	Kinney, Richard M.		CTK Biotech, Inc.	21-Dec-21
L-101-2017/0	Devos, Joshua R.		Life Technologies Corporation	21-Dec-21
L-101-2017/0	Wagar, Nicholas		Life Technologies Corporation	21-Dec-21
L-101-2017/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	21-Dec-21
L-101-2017/0	Zhou, Zhiyong		Life Technologies Corporation	21-Dec-21
L-127-2013/2	Esswein, Eric J.		SKC, Inc.	22-Dec-21
L-127-2013/2	Kennedy, Eugene R.		SKC, Inc.	22-Dec-21
L-127-2013/2	Snawder, John E.		SKC, Inc.	22-Dec-21
L-127-2013/2	Striley, Cynthia A.		SKC, Inc.	22-Dec-21
L-126-2016/0	Dietrich, EB Gabrielle		Evolva Inc.	22-Dec-21

(b) (3) (A), (b) (4), (b) (6)

L-126-2016/0	Dolan, Marc C.	(b) (4)	Evolve Inc.	22-Dec-21
L-126-2016/0	Maupin, Gary O.	(b) (6)	Evolve Inc.	22-Dec-21
L-126-2016/0	Panella, Nicholas A.		Evolve Inc.	22-Dec-21
L-126-2016/0	(b) (4)		Evolve Inc.	22-Dec-21
L-210-2017/0	CDC		Quest Diagnostics Inc.	23-Dec-21
L-065-2015/0	Aloisio, Carol H.	(b) (4)	BioLegend, Inc.	29-Dec-21
L-065-2015/0	Black, Charlotte M.	(b) (6)	BioLegend, Inc.	29-Dec-21
L-065-2015/0	Galland, Gale G.		BioLegend, Inc.	29-Dec-21
L-065-2015/0	Moore, Deborah D.		BioLegend, Inc.	29-Dec-21
L-065-2015/0	Phillips, Donald		BioLegend, Inc.	29-Dec-21
L-065-2015/0	Reimer, Charles B.		BioLegend, Inc.	29-Dec-21
L-065-2015/0	Wells, Thomas		BioLegend, Inc.	29-Dec-21
L-017-2017/0	Munoz-Jordan, Jorge L.		Takeda Vaccines, Inc.	29-Dec-21
L-017-2017/0	Santiago, Gilberto		Takeda Vaccines, Inc.	29-Dec-21
L-017-2017/0	Vergne, Edgardo		Takeda Vaccines, Inc.	29-Dec-21

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

CDC

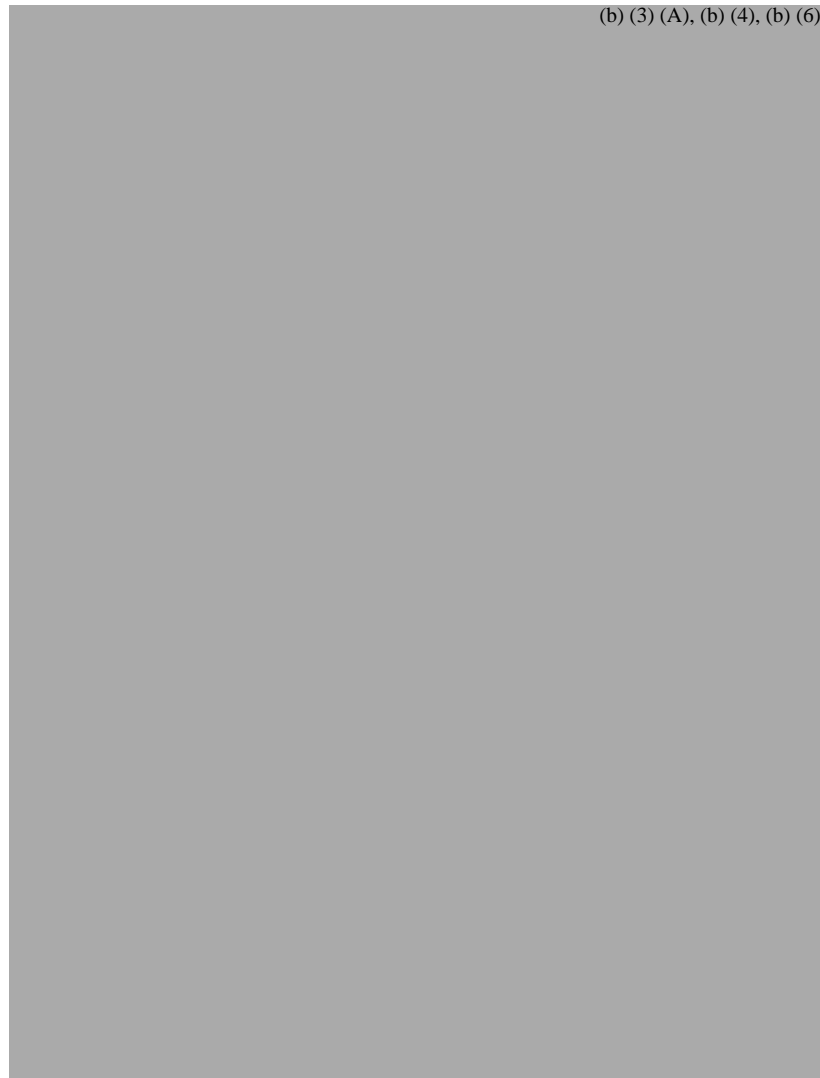
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-198-2016/2	Burns, Cara C.	(b) (4)	Codagenix	3-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-198-2016/2	Campagnoli, Raymond	(b) (6)	Codagenix	3-Jan-22						
L-198-2016/2	Kew, Olen M.		Codagenix	3-Jan-22						
L-198-2016/2	Quay, Jacqueline		Codagenix	3-Jan-22						
L-198-2016/2	Shaw, Jing		Codagenix	3-Jan-22						
L-283-2018/0	Folks, Thomas M		TAD Pharma GmbH	3-Jan-22						
L-283-2018/0	Garcia Lerma, Jose Gerardo		TAD Pharma GmbH	3-Jan-22						
L-283-2018/0	Heneine, Walid M.		TAD Pharma GmbH	3-Jan-22						
L-283-2018/0	Janssen, Robert		TAD Pharma GmbH	3-Jan-22						
L-283-2018/0	Otten, Ronald		TAD Pharma GmbH	3-Jan-22						
L-108-2014/3	CDC		Microbiologics, Inc.	4-Jan-22						
L-329-2014/0	Bishop, Henry	(b) (4)	Fuller Laboratories	4-Jan-22						
L-035-2017/1	CDC	(b) (6)	Microbiologics Inc	4-Jan-22						
L-196-2017/0	CDC		Microbiologics Inc	4-Jan-22						
L-218-2017/0	CDC		Microbiologics Inc	4-Jan-22						
L-203-2018/0	CDC		Serum Institute of India	4-Jan-22						
L-232-2020/1	Aloisio, Carol H.	(b) (4)	BD Biosciences	6-Jan-22						
L-232-2020/1	Black, Charlotte M.	(b) (6)	BD Biosciences	6-Jan-22						
L-232-2020/1	Galland, Gale G.		BD Biosciences	6-Jan-22						
L-232-2020/1	Moore, Deborah D.		BD Biosciences	6-Jan-22						
L-232-2020/1	Phillips, Donald		BD Biosciences	6-Jan-22						
L-232-2020/1	Reimer, Charles B.		BD Biosciences	6-Jan-22						
L-232-2020/1	Wells, Thomas		BD Biosciences	6-Jan-22						

L-025-2016/0	Roehrig, John T.	(b) (4), (b) (6)	Hennessy Research Associates	7-Jan-22
L-174-2013/1	Chang, Gwong-Jen J.	(b) (4), (b) (6)	Hennessy Research Associates	11-Jan-22
L-111-2014/2	CDC	(b) (4), (b) (6)	Invenprise LLC	11-Jan-22
L-242-2019/0	Damon, Inger K.	(b) (4), (b) (6)	Liaoning Cheng Da Biotechnology Co., LTD	11-Jan-22
L-242-2019/0	Hanlon, Cathleen	(b) (4), (b) (6)	Liaoning Cheng Da Biotechnology Co., LTD	11-Jan-22
L-242-2019/0	Wu, Xianfu	(b) (4), (b) (6)	Liaoning Cheng Da Biotechnology Co., LTD	11-Jan-22
L-180-2013/4	Chang, Gwong-Jen J.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-225-2017/0	Chang, Gwong-Jen J.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-225-2017/0	Davis, Brent S.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-225-2017/0	Roehrig, John T.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-225-2017/0	Thibodeaux, Brett A.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-233-2018/0	Bagarozzi, Dennis Anthony	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-233-2018/0	Boyer, Anne E.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-233-2018/0	Goldstein, Jason Marc	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-233-2018/0	Quinn, Conrad P.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22
L-233-2013/0	Hummer, Jon	(b) (4), (b) (6)	Thermo Environmental Instruments	13-Jan-22
L-233-2013/0	Volkwein, Jon C.	(b) (4), (b) (6)	Thermo Environmental Instruments	13-Jan-22
L-248-2013/0	Tuchman, Donald P.	(b) (4), (b) (6)	Thermo Environmental Inst., Inc.	13-Jan-22
L-026-2018/0	Anderson, Burt E.	(b) (4), (b) (6)	ID-FISH Technology, Inc	13-Jan-22
L-026-2018/0	Dawson, Jacqueline E.	(b) (4), (b) (6)	ID-FISH Technology, Inc	13-Jan-22
L-167-2018/0	Aloisio, Carol H.	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-167-2018/0	Black, Charlotte M.	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-167-2018/0	Galland, Gale G.	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-167-2018/0	Moore, Deborah D.	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-167-2018/0	Phillips, Donald	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-167-2018/0	Reimer, Charles B.	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-167-2018/0	Wells, Thomas	(b) (4), (b) (6)	Southern Biotechnology	14-Jan-22
L-009-2019/3	Gasebom, Shane Dallas	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Guo, Zhu	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Stevens, James	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Wilson, Jason Ray	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Yang, Hua	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	York, Ian Arthur	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Gasebom, Shane Dallas	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Guo, Zhu	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Stevens, James	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Wilson, Jason Ray	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	Yang, Hua	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-009-2019/3	York, Ian Arthur	(b) (4), (b) (6)	InDevR, Inc.	14-Jan-22
L-212-2014/0	Granade, Timothy C.	(b) (4), (b) (6)	Maxim Biotech, Inc.	18-Jan-22
L-212-2014/0	Parekh, Bharat S.	(b) (4), (b) (6)	Maxim Biotech, Inc.	18-Jan-22
L-212-2014/0	Pau, Chou-Pong	(b) (4), (b) (6)	Maxim Biotech, Inc.	18-Jan-22
L-140-2013/0	Lewis, Daniel M.	(b) (4), (b) (6)	Alexeter Technologies	19-Jan-22
L-140-2013/0	Schmechel, Detlef	(b) (4), (b) (6)	Alexeter Technologies	19-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-029-2014/0	CDC		Serum Institute of India Ltd.	19-Jan-22
L-102-2018/0	Robertson, Shirley	(b)	Becton, Dickinson and Company	20-Jan-22
L-102-2018/0	Sammons, Deborah L.	(4)	Becton, Dickinson and Company	20-Jan-22
L-102-2018/0	Smith, Jerome P.	(b) (6)	Becton, Dickinson and Company	20-Jan-22
L-130-2014/1	Donlan, Rodney M.		BioSurface Tech.	24-Jan-22
L-130-2014/1	Kirby, Wayne		BioSurface Tech.	24-Jan-22
L-130-2014/1	Murga, Ricardo		BioSurface Tech.	24-Jan-22
L-167-2018/0	Aloisio, Carol H.		Southern Biotechnology	24-Jan-22
L-167-2018/0	Black, Charlotte M.		Southern Biotechnology	24-Jan-22
L-167-2018/0	Galland, Gale G.		Southern Biotechnology	24-Jan-22
L-167-2018/0	Moore, Deborah D.		Southern Biotechnology	24-Jan-22
L-167-2018/0	Phillips, Donald		Southern Biotechnology	24-Jan-22
L-167-2018/0	Reimer, Charles B.		Southern Biotechnology	24-Jan-22
L-167-2018/0	Wells, Thomas		Southern Biotechnology	24-Jan-22
L-195-2014/0	CDC		CTK Biotech, Inc.	25-Jan-22
L-127-2013/2	Esswein, Eric J.	(b) (4)	SKC, Inc.	26-Jan-22
L-127-2013/2	Kennedy, Eugene R.	(b) (6)	SKC, Inc.	26-Jan-22
L-127-2013/2	Snawder, John E.		SKC, Inc.	26-Jan-22
L-127-2013/2	Striley, Cynthia A.		SKC, Inc.	26-Jan-22
L-247-2020/0	Butera, Salvatore T.		Merck Sharp & Dohme Corp.	26-Jan-22
L-247-2020/0	Folks, Thomas M		Merck Sharp & Dohme Corp.	26-Jan-22
L-247-2020/0	Perez, Victor L.		Merck Sharp & Dohme Corp.	26-Jan-22
L-253-2019/0	Munoz-Jordan, Jorge L.		Integrated DNA Technologies, Inc.	28-Jan-22
L-253-2019/0	Santiago, Gilberto		Integrated DNA Technologies, Inc.	28-Jan-22
L-253-2019/0	Vergne, Edgardo		Integrated DNA Technologies, Inc.	28-Jan-22
L-314-2019/0	Cox, Nancy J.		Integrated DNA Technologies, Inc.	28-Jan-22
L-314-2019/0	Klimov, Alexander I.		Integrated DNA Technologies, Inc.	28-Jan-22
L-314-2019/0	Lindstrom, Stephen		Integrated DNA Technologies, Inc.	28-Jan-22
L-314-2019/0	Loftin, Lamorris		Integrated DNA Technologies, Inc.	28-Jan-22
L-154-2013/0	Castro, Arnold R.		Chembio Diagnostic Sys., Inc.	31-Jan-22
L-154-2013/0	George, Robert W.		Chembio Diagnostic Sys., Inc.	31-Jan-22
L-155-2013/0	Castro, Arnold R.		Chembio Diagnostic Systems, Inc.	31-Jan-22
L-155-2013/0	Morrill, William E.		Chembio Diagnostic Systems, Inc.	31-Jan-22
L-155-2013/0	Pope, Victoria		Chembio Diagnostic Systems, Inc.	31-Jan-22
L-168-2016/0	CDC		Mylan, Inc.	31-Jan-22



NIH Patent Licensing Activities

CDC

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-175-2013/0	Chang, Gwong-Jen J.	(b) (4)	D-VET Sar1	2-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-110-2014/2	Aloisio, Carol H.	(b) (6)	Diasorin S.R.L.	3-Feb-22						
L-110-2014/2	Black, Charlotte M.		Diasorin S.R.L.	3-Feb-22						

L-110-2014/2	Galland, Gale G.	(b) (4)	Diasorin S.R.L.	3-Feb-22
L-110-2014/2	Mark W. Reimer, (b) (6)	(b) (6)	Diasorin S.R.L.	3-Feb-22
L-110-2014/2	Moore, Deborah D.		Diasorin S.R.L.	3-Feb-22
L-110-2014/2	Phillips, Donald		Diasorin S.R.L.	3-Feb-22
L-110-2014/2	Wells, Thomas		Diasorin S.R.L.	3-Feb-22
L-144-2013/0	Kent, Rebekah J.		BioQuip Products	7-Feb-22
L-144-2013/0	Komar, Nicholas		BioQuip Products	7-Feb-22
L-144-2013/0	Panella, Nicholas A.		BioQuip Products	7-Feb-22
L-108-2014/3	CDC		Microbiologics, Inc.	8-Feb-22
L-196-2017/0	CDC		Microbiologics Inc	8-Feb-22
L-247-2013/1	Castro, Arnold R.	(b) (4)	Arkray Healthcare Pvt Ltd.	9-Feb-22
L-247-2013/1	George, Robert W.	(b) (6)	Arkray Healthcare Pvt Ltd.	9-Feb-22
L-112-2021/0	Folks, Thomas M		Laurus Generics, Inc.	9-Feb-22
L-112-2021/0	Garcia Lerma, Jose Gerardo		Laurus Generics, Inc.	9-Feb-22
L-112-2021/0	Heneine, Walid M.		Laurus Generics, Inc.	9-Feb-22
L-112-2021/0	Janssen, Robert		Laurus Generics, Inc.	9-Feb-22
L-112-2021/0	Otten, Ronald		Laurus Generics, Inc.	9-Feb-22
L-231-2013/0	Murphy, William J.		Michael & Associates, Inc.	10-Feb-22
L-231-2013/0	Raudabaugh, William M.		Michael & Associates, Inc.	10-Feb-22
L-231-2013/0	Stephenson, Mark R.		Michael & Associates, Inc.	10-Feb-22
L-145-2013/3	Gentsch, Jon R.		Beijing Luzhu Biopharm Co., Ltd.	11-Feb-22
L-145-2013/3	Glass, Roger I.		Beijing Luzhu Biopharm Co., Ltd.	11-Feb-22
L-145-2013/3	Jiang, Baoming		Beijing Luzhu Biopharm Co., Ltd.	11-Feb-22
L-145-2013/3	Saluzzo, Jean-Francois		Beijing Luzhu Biopharm Co., Ltd.	11-Feb-22
L-145-2013/3	Wang, Yuhuan		Beijing Luzhu Biopharm Co., Ltd.	11-Feb-22
L-198-2013/0	Fields, Patricia		Luminex Corporation	11-Feb-22
L-198-2013/0	Leaumont, Collette F.		Luminex Corporation	11-Feb-22
L-198-2013/0	McQuiston, John R.		Luminex Corporation	11-Feb-22
L-128-2014/1	Harmon, Maurice		Medix Biochemica	11-Feb-22
L-128-2014/1	Kendal, Alan P.		Medix Biochemica	11-Feb-22
L-128-2014/1	Stockdale, Carol		Medix Biochemica	11-Feb-22
L-128-2014/1	Walls, Harriet		Medix Biochemica	11-Feb-22
L-134-2014/1	Anderson, Larry J.		Millipore Sigma	11-Feb-22
L-134-2014/1	Hierholzer, John C.		Millipore Sigma	11-Feb-22
L-134-2014/1	Tsou, Cecelia		Millipore Sigma	11-Feb-22
L-167-2021/1	Folks, Thomas M		Sandoz Pty Ltd	14-Feb-22
L-167-2021/1	Garcia Lerma, Jose Gerardo		Sandoz Pty Ltd	14-Feb-22
L-167-2021/1	Heneine, Walid M.		Sandoz Pty Ltd	14-Feb-22
L-167-2021/1	Janssen, Robert		Sandoz Pty Ltd	14-Feb-22
L-167-2021/1	Otten, Ronald		Sandoz Pty Ltd	14-Feb-22
L-175-2013/0	Chang, Gwong-Jen J.		ID-VET Sarl	15-Feb-22
L-128-2014/1	Harmon, Maurice		Medix Biochemica	16-Feb-22
L-128-2014/1	Kendal, Alan P.		Medix Biochemica	16-Feb-22
L-128-2014/1	Stockdale, Carol		Medix Biochemica	16-Feb-22
L-128-2014/1	Walls, Harriet		Medix Biochemica	16-Feb-22

(b) (3) (A), (b) (4), (b) (6)

L-185-2014/1	Cromeans, Theresa	(b) (4)	Indian Immunologicals Ltd.	17-Feb-22	(b) (3) (A), (b) (4), (b) (6)
L-185-2014/1	Fields, Howard A.	(b) (6)	Indian Immunologicals Ltd.	17-Feb-22	
L-126-2016/0	CDC		Evolve Inc.	18-Feb-22	
L-222-2021/0	Burns, Cara C.	(b) (4)	Anhui Zhifei Longcom Biopharmaceutical C	18-Feb-22	
L-222-2021/0	Campagnoli, Raymond	(b) (6)	Anhui Zhifei Longcom Biopharmaceutical C	18-Feb-22	
L-222-2021/0	Kew, Olen M.		Anhui Zhifei Longcom Biopharmaceutical C	18-Feb-22	
L-222-2021/0	Shaw, Jing		Anhui Zhifei Longcom Biopharmaceutical C	18-Feb-22	
L-134-2014/1	Anderson, Larry J.		Millipore Sigma	22-Feb-22	
L-134-2014/1	Hierholzer, John C.		Millipore Sigma	22-Feb-22	
L-134-2014/1	Tsou, Cecelia		Millipore Sigma	22-Feb-22	
L-136-2014/2	Roehrig, John T.		Millipore Sigma	22-Feb-22	
L-140-2014/1	Anderson, Larry J.		Millipore Sigma	22-Feb-22	
L-140-2014/1	Erdman, Dean D.		Millipore Sigma	22-Feb-22	
L-140-2014/1	Hart, John C.		Millipore Sigma	22-Feb-22	
L-140-2014/1	Peret, Teresa C.		Millipore Sigma	22-Feb-22	
L-141-2014/3	Rupperecht, Charles E.		Millipore Sigma	22-Feb-22	
L-141-2014/3	Smith, Jean S.		Millipore Sigma	22-Feb-22	
L-141-2014/3	Yager, Pamela		Millipore Sigma	22-Feb-22	
L-150-2014/2	Maher, Kaija		Millipore Sigma	22-Feb-22	
L-150-2014/2	Pallansch, Mark A.		Millipore Sigma	22-Feb-22	
L-151-2014/1	Bellini, William J.		Millipore Sigma	22-Feb-22	
L-151-2014/1	Wang, Zhongde		Millipore Sigma	22-Feb-22	
L-154-2014/1	Black, Jodi B.		Millipore Corporation	22-Feb-22	
L-154-2014/1	Lopez, Carlos		Millipore Corporation	22-Feb-22	
L-154-2014/1	Pellett, Philip E.		Millipore Corporation	22-Feb-22	
L-154-2014/1	Yamamoto, Masahiro		Millipore Corporation	22-Feb-22	
L-155-2014/1	Freeman, Charlotte		Millipore Sigma	22-Feb-22	
L-155-2014/1	Pallansch, Mark A.		Millipore Sigma	22-Feb-22	
L-160-2014/2	Harmon, Maurice		Millipore Sigma	22-Feb-22	
L-160-2014/2	Kendal, Alan P.		Millipore Sigma	22-Feb-22	
L-160-2014/2	Stockdale, Carol		Millipore Sigma	22-Feb-22	
L-160-2014/2	Walls, Harriet		Millipore Sigma	22-Feb-22	
L-125-2020/0	Aloisio, Carol H.		loavance Biotherapeutics, Inc	22-Feb-22	
L-125-2020/0	Black, Charlotte M.		loavance Biotherapeutics, Inc	22-Feb-22	
L-125-2020/0	Galland, Gale G.		loavance Biotherapeutics, Inc	22-Feb-22	
L-125-2020/0	Moore, Deborah D.		loavance Biotherapeutics, Inc	22-Feb-22	
L-125-2020/0	Phillips, Donald		loavance Biotherapeutics, Inc	22-Feb-22	
L-125-2020/0	Reimer, Charles B.		loavance Biotherapeutics, Inc	22-Feb-22	
L-125-2020/0	Wells, Thomas		loavance Biotherapeutics, Inc	22-Feb-22	
L-036-2021/0	Olson, Victoria Ann		Shandong Yidu Biotechnology Co., Ltd.	22-Feb-22	
L-036-2021/0	Rupperecht, Charles E.		Shandong Yidu Biotechnology Co., Ltd.	22-Feb-22	
L-036-2021/0	Wu, Xianfu		Shandong Yidu Biotechnology Co., Ltd.	22-Feb-22	
L-036-2021/0	Yang, Yong		Shandong Yidu Biotechnology Co., Ltd.	22-Feb-22	
L-186-2013/6	Chang, Gwong-Jen J.		DiaSorin Molecular	23-Feb-22	
L-186-2013/6	Roehrig, John T.		DiaSorin Molecular	23-Feb-22	

L-065-2015/0	Aloisio, Carol H.	(b) (4)	BioLegend, Inc.	23-Feb-22
L-065-2015/0	Black, Charlotte M.	(b) (6)	BioLegend, Inc.	23-Feb-22
L-065-2015/0	Galland, Gale G.		BioLegend, Inc.	23-Feb-22
L-065-2015/0	Moore, Deborah D.		BioLegend, Inc.	23-Feb-22
L-065-2015/0	Phillips, Donald		BioLegend, Inc.	23-Feb-22
L-065-2015/0	Reimer, Charles B.		BioLegend, Inc.	23-Feb-22
L-065-2015/0	Wells, Thomas		BioLegend, Inc.	23-Feb-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 CDC
 March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-137-2014/0	Aloisio, Carol H.	(b) (4)	eBioscience, Inc.	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-137-2014/0	Black, Charlotte M.	(b) (6)	eBioscience, Inc.	1-Mar-22						
L-137-2014/0	Galland, Gale G.		eBioscience, Inc.	1-Mar-22						
L-137-2014/0	Mark W. Reimer	(b) (6)	eBioscience, Inc.	1-Mar-22						
L-137-2014/0	Moore, Deborah D.		eBioscience, Inc.	1-Mar-22						
L-137-2014/0	Phillips, Donald		eBioscience, Inc.	1-Mar-22						
L-137-2014/0	Wells, Thomas		eBioscience, Inc.	1-Mar-22						
L-142-2014/2	Aloisio, Carol H.		Life Technologies Corporation	1-Mar-22						
L-142-2014/2	Black, Charlotte M.		Life Technologies Corporation	1-Mar-22						
L-142-2014/2	Galland, Gale G.		Life Technologies Corporation	1-Mar-22						
L-142-2014/2	Moore, Deborah D.		Life Technologies Corporation	1-Mar-22						
L-142-2014/2	Phillips, Donald		Life Technologies Corporation	1-Mar-22						
L-142-2014/2	Reimer, Charles B.		Life Technologies Corporation	1-Mar-22						
L-142-2014/2	Wells, Thomas		Life Technologies Corporation	1-Mar-22						
L-070-2016/1	Sanchez, Anthony		Emergent Biosolutions	1-Mar-22						
<i>Note: L-070-2016/1 split between CDC; NIAID</i>										
L-101-2017/0	Devos, Joshua R.		Life Technologies Corporation	1-Mar-22						
L-101-2017/0	Wagar, Nicholas		Life Technologies Corporation	1-Mar-22						
L-101-2017/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	1-Mar-22						
L-101-2017/0	Zhou, Zhiyong		Life Technologies Corporation	1-Mar-22						
L-252-2013/3	Barclay, Leslie		R-Biopharm AG	3-Mar-22						
L-252-2013/3	Chhabra, Preeti		R-Biopharm AG	3-Mar-22						
L-252-2013/3	Gregoricus, Nicole		R-Biopharm AG	3-Mar-22						
L-252-2013/3	Vinje, Jan		R-Biopharm AG	3-Mar-22						
L-166-2017/0	CDC		Accelerate Diagnostics, Inc.	10-Mar-22						
L-180-2013/4	Chang, Gwong-Jen J.	(b) (4)	InBios International, Inc.	15-Mar-22						
L-186-2013/6	Chang, Gwong-Jen J.	(b) (6)	DiaSorin Molecular	15-Mar-22						
L-186-2013/6	Roehrig, John T.		DiaSorin Molecular	15-Mar-22						
L-225-2017/0	Chang, Gwong-Jen J.		InBios International, Inc.	15-Mar-22						
L-225-2017/0	Davis, Brent S.		InBios International, Inc.	15-Mar-22						
L-225-2017/0	Roehrig, John T.		InBios International, Inc.	15-Mar-22						
L-225-2017/0	Thibodeaux, Brett A.		InBios International, Inc.	15-Mar-22						
L-129-2014/2	Anderson, Larry J.		ViroStat, Inc.	18-Mar-22						

L-129-2014/2 Tsou, Cecelia
 L-184-2013/0 Kulkarni, Pramod
 L-184-2013/0 Qi, Chaolong
 L-187-2013/0 Kulkarni, Pramod
 L-187-2013/0 Qi, Chaolong
 L-198-2013/0 Fields, Patricia
 L-198-2013/0 Leaumont, Collette F.
 L-198-2013/0 McQuiston, John R.

(b) (4), ViroStat, Inc.
 (b) (6) Kanomax Japan, Inc.
 Kanomax Japan, Inc.
 Kanomax Japan, Inc.
 Kanomax Japan, Inc.
 Luminex Corporation
 Luminex Corporation
 Luminex Corporation

18-Mar-22
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 30-Mar-22
 30-Mar-22



(b) (3) (A), (b) (4), (b) (6)

<u>\$1,474,601.11</u>	<u>\$77,734.39</u>	<u>\$1,552,335.50</u>	<u>\$387,543.00</u>	<u>\$1,164,792.50</u>
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NIH Patent Licensing Activities

CIT

October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities

CIT

November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities

CIT

December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities

CIT

January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-028-2018/1	Cheng, Ruida	(b) (4)	Scanmed LLC	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-028-2018/1	McAuliffe, Matthew	(b) (6)	Scanmed LLC	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										
L-111-2006/0	CIT		ICAD Inc	19-Jan-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-111-2006/0 split between CC; CIT; NIDCD</i>										

NIH Patent Licensing Activities

CIT

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities

CIT

March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-111-2006/0	Malley, James	(b)	ICAD Inc	3-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-111-2006/0	Wagner, Lynne M	(4)	ICAD Inc	3-Mar-22						
<i>Note: L-111-2006/0 split between CC; CIT; NIDCD</i>										
L-028-2018/1	CIT		Scanmed LLC	28-Mar-22						
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										

NIH Patent Licensing Activities
 FDA
 October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-001-2015/2	FDA		Merck Sharp & Dohme, Corp.	28-Oct-21						(b) (3) (A), (b) (4)

Note: L-001-2015/2 split between FDA; NIAID

NIH Patent Licensing Activities
 FDA
 November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
 FDA
 December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities
 FDA
 January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-119-2009/2	Falgout, Barry	(b) (4)	Fundacao Butantan	1-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-119-2009/2	Markoff, Lewis	(b) (6)	Fundacao Butantan	1-Jan-22						

Note: L-119-2009/2 split between FDA; NIAID

L-149-2015/1	Falgout, Barry		Serum Institute of India Ltd.	3-Jan-22						
L-149-2015/1	Markoff, Lewis		Serum Institute of India Ltd.	3-Jan-22						

Note: L-149-2015/1 split between FDA; NIAID

L-046-2017/1	Falgout, Barry		Medigen Vaccine Biologics Corp	11-Jan-22						
L-046-2017/1	Markoff, Lewis		Medigen Vaccine Biologics Corp	11-Jan-22						

Note: L-046-2017/1 split between FDA; NIAID

L-347-2014/0	Donnelly, Raymond P.		Abcam, plc	27-Jan-22						
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Note: L-347-2014/0 split between FDA; NCI

NIH Patent Licensing Activities
 FDA

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-089-2007/0	Petricoin, Emanuel	(b) (4)	Avant Diagnostics, Inc.	3-Feb-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-089-2007/0 split between FDA; NCI</i>										
L-217-2016/0	Falgout, Barry	(b) (6)	Indian Immunologicals Ltd	17-Feb-22						
L-217-2016/0	Markoff, Lewis	(b) (6)	Indian Immunologicals Ltd	17-Feb-22						
<i>Note: L-217-2016/0 split between FDA; NIAID</i>										
L-111-2013/0	Donnelly, Raymond P.	(b) (6)	Millipore Sigma	22-Feb-22						
<i>Note: L-111-2013/0 split between FDA; NCI</i>										

NIH Patent Licensing Activities

FDA

March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-203-2020/0	Falgout, Barry	(b) (4)	Janssen Pharmaceutica, N.V.	18-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-203-2020/0	Markoff, Lewis	(b) (6)	Janssen Pharmaceutica, N.V.	18-Mar-22						
<i>Note: L-203-2020/0 split between FDA; NIAID</i>										
L-114-2009/0	Falgout, Barry	(b) (6)	Co for Vaccine and Bio Productin	23-Mar-22						
L-114-2009/0	Markoff, Lewis	(b) (6)	Co for Vaccine and Bio Productin	23-Mar-22						
<i>Note: L-114-2009/0 split between FDA; NIAID</i>										
L-080-2006/4	Falgout, Barry	(b) (6)	Panacea Biotech Ltd	29-Mar-22						
L-080-2006/4	Markoff, Lewis	(b) (6)	Panacea Biotech Ltd	29-Mar-22						
<i>Note: L-080-2006/4 split between FDA; NIAID</i>										
					\$43,236.40	\$0.00	\$43,236.40		\$9,117.33	\$34,119.07

NIH Patent Licensing Activities
NCATS
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-008-2022/0	Deng, Tao	(b) (4)	Cygnal Therapeutics, Inc.	28-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-008-2022/0	Simeonov, Anton	(b) (6)	Cygnal Therapeutics, Inc.	28-Oct-21						
L-008-2022/0	Singec, Ilyas		Cygnal Therapeutics, Inc.	28-Oct-21						

NIH Patent Licensing Activities
NCATS
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-055-2015/1	Marugan, Juan J.	(b) (4)	Bial-BioTech Investments, Inc.	26-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-055-2015/1	Patnaik, Samarjit	(b) (6)	Bial-BioTech Investments, Inc.	26-Nov-21						
L-055-2015/1	Southall, Noel T.		Bial-BioTech Investments, Inc.	26-Nov-21						
L-055-2015/1	Zheng, Wei		Bial-BioTech Investments, Inc.	26-Nov-21						

Note: L-055-2015/1 split between NCATS; NHGRI

NIH Patent Licensing Activities
NCATS
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-008-2022/0	NCATS		Cygnal Therapeutics, Inc.	17-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-008-2022/0	Deng, Tao	(b) (4)	Cygnal Therapeutics, Inc.	17-Dec-21						
L-008-2022/0	Simeonov, Anton	(b) (6)	Cygnal Therapeutics, Inc.	17-Dec-21						
L-008-2022/0	Singec, Ilyas		Cygnal Therapeutics, Inc.	17-Dec-21						

NIH Patent Licensing Activities
NCATS
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-128-2016/0	Alimardanov, Asaf R	(b) (4)	Massachusetts General Hospital	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-128-2016/0	Grewal, Gurmit S	(b) (6)	Massachusetts General Hospital	4-Jan-22						
L-128-2016/0	Huang, Xiuli		Massachusetts General Hospital	4-Jan-22						
L-128-2016/0	Lee, Arthur		Massachusetts General Hospital	4-Jan-22						
L-128-2016/0	McKew, John C.		Massachusetts General Hospital	4-Jan-22						
L-128-2016/0	Patel, Paresma Rasiklal		Massachusetts General Hospital	4-Jan-22						

L-128-2016/0	Sanderson, Philip Edward	(b) (4), Massachusetts General Hospital	4-Jan-22
L-128-2016/0	Shen, Min	(b) (6) Massachusetts General Hospital	4-Jan-22
L-128-2016/0	Xu, Xin	Massachusetts General Hospital	4-Jan-22
L-128-2016/0	Zheng, Wei	Massachusetts General Hospital	4-Jan-22
L-066-2019/0	Alimardanov, Asaf R	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Huang, Junfeng	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Huang, Wenwei	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Huang, Xiuli	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Jiang, Jian-kang	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Lee, Arthur	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Sanderson, Philip Edward	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Shamim, Khalida	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Tawa, Gregory	Brigham and Women's Hospital	4-Jan-22
L-066-2019/0	Zheng, Wei	Brigham and Women's Hospital	4-Jan-22
L-008-2022/0	Deng, Tao	Cygnal Therapeutics, Inc.	5-Jan-22
L-008-2022/0	Simeonov, Anton	Cygnal Therapeutics, Inc.	5-Jan-22
L-008-2022/0	Singec, Ilyas	Cygnal Therapeutics, Inc.	5-Jan-22
L-076-2018/1	Inglese, James	Lead Discovery Center GmbH	14-Jan-22
L-076-2018/1	Jang, Sung-Wook	Lead Discovery Center GmbH	14-Jan-22
L-076-2018/1	Svaren, John	Lead Discovery Center GmbH	14-Jan-22
L-030-2017/1	Jadhav, Ajit P.	ConverGene, LLC	19-Jan-22
L-030-2017/1	Maloney, David	ConverGene, LLC	19-Jan-22
L-030-2017/1	Urban, Daniel	ConverGene, LLC	19-Jan-22
L-030-2017/1	Yang, Shyh-Ming	ConverGene, LLC	19-Jan-22
L-057-2015/0	Austin, Christopher P.	MANDOS, LLC	21-Jan-22
L-057-2015/0	Liu, Ke	MANDOS, LLC	21-Jan-22
L-057-2015/0	Marugan, Juan J.	MANDOS, LLC	21-Jan-22
L-057-2015/0	McKew, John C.	MANDOS, LLC	21-Jan-22
L-057-2015/0	Southall, Noel T.	MANDOS, LLC	21-Jan-22
L-057-2015/0	Swaroop, Manju	MANDOS, LLC	21-Jan-22
L-057-2015/0	Xiao, Jingbo	MANDOS, LLC	21-Jan-22
L-057-2015/0	Xu, Miao	MANDOS, LLC	21-Jan-22
L-057-2015/0	Zheng, Wei	MANDOS, LLC	21-Jan-22

Note: L-057-2015/0 split between NCATS; NHGRI

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NCATS

February 2022

License	Inventor	Inventor		Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
		Share %	Licensee							
L-128-2016/0	Alimardanov, Asaf R	(b) (4),	Massachusetts General Hospital	15-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-128-2016/0	Grewal, Gurmit S	(b) (6)	Massachusetts General Hospital	15-Feb-22						
L-128-2016/0	Huang, Xiuli		Massachusetts General Hospital	15-Feb-22						
L-128-2016/0	Lee, Arthur		Massachusetts General Hospital	15-Feb-22						
L-128-2016/0	McKew, John C.		Massachusetts General Hospital	15-Feb-22						

L-128-2016/0	Patel, Paresma Rasiklal	(b) (4), Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Sanderson, Philip Edward	(b) (6) Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Shen, Min	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Xu, Xin	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Zheng, Wei	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Alimardanov, Asaf R	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Grewal, Gurmit S	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Huang, Xiuli	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Lee, Arthur	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	McKew, John C.	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Patel, Paresma Rasiklal	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Sanderson, Philip Edward	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Shen, Min	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Xu, Xin	Massachusetts General Hospital	15-Feb-22
L-128-2016/0	Zheng, Wei	Massachusetts General Hospital	15-Feb-22
L-066-2019/0	Alimardanov, Asaf R	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Huang, Junfeng	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Huang, Wenwei	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Huang, Xiuli	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Jiang, Jian-kang	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Lee, Arthur	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Sanderson, Philip Edward	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Shamim, Khalida	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Tawa, Gregory	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Zheng, Wei	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Alimardanov, Asaf R	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Huang, Junfeng	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Huang, Wenwei	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Huang, Xiuli	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Jiang, Jian-kang	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Lee, Arthur	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Sanderson, Philip Edward	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Shamim, Khalida	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Tawa, Gregory	Brigham and Women's Hospital	15-Feb-22
L-066-2019/0	Zheng, Wei	Brigham and Women's Hospital	15-Feb-22
L-116-2013/0	Auld, Douglas S.	EMD Millipore Corp.	22-Feb-22
L-116-2013/0	Boxer, Matthew	EMD Millipore Corp.	22-Feb-22
L-116-2013/0	Inglese, James	EMD Millipore Corp.	22-Feb-22
L-116-2013/0	Jiang, Jian-kang	EMD Millipore Corp.	22-Feb-22
L-116-2013/0	Shen, Min	EMD Millipore Corp.	22-Feb-22
L-116-2013/0	Skoumbourdis, Amanda P.	EMD Millipore Corp.	22-Feb-22
L-116-2013/0	Thomas, Craig J.	EMD Millipore Corp.	22-Feb-22

Note: L-116-2013/0 split between NCATS; NHGRI

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-080-2015/0	Cheng, Chih-Chien (Ken)	(b) (4)	Promega Corporation	2-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-080-2015/0	Hasson, Samuel A.	(b) (6)	Promega Corporation	2-Mar-22						
L-080-2015/0	Inglese, James		Promega Corporation	2-Mar-22						
L-128-2016/0	Alimardanov, Asaf R		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Grewal, Gurmit S		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Huang, Xiuli		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Lee, Arthur		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	McKew, John C.		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Patel, Paresma Rasiklal		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Sanderson, Philip Edward		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Shen, Min		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Xu, Xin		Massachusetts General Hospital	21-Mar-22						
L-128-2016/0	Zheng, Wei		Massachusetts General Hospital	21-Mar-22						
L-066-2019/0	Alimardanov, Asaf R		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Huang, Junfeng		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Huang, Wenwei		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Huang, Xiuli		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Jiang, Jian-kang		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Lee, Arthur		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Sanderson, Philip Edward		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Shamim, Khalida		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Tawa, Gregory		Brigham and Women's Hospital	21-Mar-22						
L-066-2019/0	Zheng, Wei		Brigham and Women's Hospital	21-Mar-22						
L-022-2022/0	Chen, Yu		FUJIFILM Cellular Dynamics, Inc.	22-Mar-22						
L-022-2022/0	Deng, Tao		FUJIFILM Cellular Dynamics, Inc.	22-Mar-22						
L-022-2022/0	Jovanovic, Vukasin		FUJIFILM Cellular Dynamics, Inc.	22-Mar-22						
L-022-2022/0	Simeonov, Anton		FUJIFILM Cellular Dynamics, Inc.	22-Mar-22						
L-022-2022/0	Singec, Ilyas		FUJIFILM Cellular Dynamics, Inc.	22-Mar-22						
L-022-2022/0	NCATS		FUJIFILM Cellular Dynamics, Inc.	22-Mar-22						
					\$716,204.21	\$50,352.35	\$766,556.56		\$169,042.63	\$597,513.93

NIH Patent Licensing Activities

NCI

October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License	Inventor Awards October	Net Remaining to IC
								Cumulative Income		
L-096-2021/0	Bonomi, Carrie A.	(b) (4)	Cancer Research Technology Limited (Ximb	1-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-096-2021/0	Borgel, Suzanne D.	(b) (6)	Cancer Research Technology Limited (Ximb	1-Oct-21						
L-096-2021/0	Dougherty, Kelly		Cancer Research Technology Limited (Ximb	1-Oct-21						
L-096-2021/0	Hollingshead, Melinda G.		Cancer Research Technology Limited (Ximb	1-Oct-21						
L-026-2005/8	NCI		MedImmune, Inc.	4-Oct-21						
L-273-2014/0	Chang, Nancy T.	(b)	Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Crowl, Robert	(4)	Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Fisher, Amanda G.	(b) (6)	Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Gallo, Robert C.		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Popovic, Mikulas		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Sarnagadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Shaw, George M		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-273-2014/0	Wong-Staal (b) (6)		Grifols Worldwide Operations Ltd.	4-Oct-21						
L-117-2017/0	NCI		Aspyrian Therapeutics, Inc.	4-Oct-21						
L-205-2021/0	Hinrichs, Christian S.	(b) (4)	Zelluna Immunotherapy AS	4-Oct-21						
L-205-2021/0	Stevanovic, Sanja	(b) (6)	Zelluna Immunotherapy AS	4-Oct-21						
L-230-2021/0	Bonomi, Carrie A.		The Jackson Laboratory	4-Oct-21						
L-230-2021/0	Borgel, Suzanne D.		The Jackson Laboratory	4-Oct-21						
L-230-2021/0	Dougherty, Kelly		The Jackson Laboratory	4-Oct-21						
L-230-2021/0	Hollingshead, Melinda G.		The Jackson Laboratory	4-Oct-21						
L-190-1998/1	Chang, Nancy T.		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Crowl, Robert		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Franchini, Genoveffa		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Gallo, Robert C.		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Gartner, Suzanne		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Lori, Franco C.		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Markham, Phillip D.		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Popovic, Mikulas		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Reddy, E. Premkumar.		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Reitz, Jr., Marvin S.		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Sarnagadharan, Mangalasseril		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Shaw, George M		ViroGen Corp.	5-Oct-21						
L-190-1998/1	Wong-Staal (b) (6)		ViroGen Corp.	5-Oct-21						
L-214-2021/0	Greiner, John W.		CLS Cell Lines Service GmbH	5-Oct-21						
L-214-2021/0	Schlom, Jeffrey		CLS Cell Lines Service GmbH	5-Oct-21						
L-190-1998/1	Chang, Nancy T.		ViroGen Corp.	6-Oct-21						
L-190-1998/1	Crowl, Robert		ViroGen Corp.	6-Oct-21						
L-190-1998/1	Franchini, Genoveffa		ViroGen Corp.	6-Oct-21						
L-190-1998/1	Gallo, Robert C.		ViroGen Corp.	6-Oct-21						
L-190-1998/1	Gartner, Suzanne		ViroGen Corp.	6-Oct-21						
L-190-1998/1	Lori, Franco C.		ViroGen Corp.	6-Oct-21						
L-190-1998/1	Markham, Phillip D.		ViroGen Corp.	6-Oct-21						

L-190-1998/1	Popovic, Mikulas	(b) (4)	ViroGen Corp.	6-Oct-21
L-190-1998/1	Reddy, E. Premkumar.	(b) (6)	ViroGen Corp.	6-Oct-21
L-190-1998/1	Reitz, Jr., Marvin S.		ViroGen Corp.	6-Oct-21
L-190-1998/1	Sarnagadharan, Mangalasseril		ViroGen Corp.	6-Oct-21
L-190-1998/1	Shaw, George M		ViroGen Corp.	6-Oct-21
L-190-1998/1	Wong-Staal	(b) (6)	ViroGen Corp.	6-Oct-21
L-141-2021/0	Gazdar, (b) (6) Adi		Champions Oncology, Inc.	6-Oct-21
L-141-2021/0	Johnson, Bruce E		Champions Oncology, Inc.	6-Oct-21
L-141-2021/0	Kaye, Frederic J		Champions Oncology, Inc.	6-Oct-21
L-141-2021/0	Khleif, Samir N.		Champions Oncology, Inc.	6-Oct-21
L-141-2021/0	Minna, John D.		Champions Oncology, Inc.	6-Oct-21
L-141-2021/0	Oie, (b) (6) Herbert K		Champions Oncology, Inc.	6-Oct-21
L-141-2021/0	Pass, Harvey I		Champions Oncology, Inc.	6-Oct-21
L-080-1993/3	Hathcock, Karen		3D Biosciences - BD PharMingen, Inc.	7-Oct-21
L-080-1993/3	Hodes, Richard J		3D Biosciences - BD PharMingen, Inc.	7-Oct-21
L-080-1993/3	Laszlo, Gloria		3D Biosciences - BD PharMingen, Inc.	7-Oct-21
L-009-2021/0	NCI		Connectyx Technologies Holdings Group	7-Oct-21
L-241-2021/0	Beyer, Rachel K. B.	(b) (4)	Lead Discovery Center GmbH	7-Oct-21
L-241-2021/0	(b) (4)	(b) (6)	Lead Discovery Center GmbH	7-Oct-21
L-241-2021/0	Holderfield, Matthew T.		Lead Discovery Center GmbH	7-Oct-21
L-241-2021/0	Soppet, Dan		Lead Discovery Center GmbH	7-Oct-21
L-208-2021/0	Cafri, Gal		Athenex, Inc.	8-Oct-21
L-208-2021/0	Deniger, Drew		Athenex, Inc.	8-Oct-21
L-208-2021/0	Hanada, Kenichi		Athenex, Inc.	8-Oct-21
L-208-2021/0	Kim, Sanghyun		Athenex, Inc.	8-Oct-21
L-208-2021/0	Levin, Noam		Athenex, Inc.	8-Oct-21
L-208-2021/0	Lo, Winifred Margaret		Athenex, Inc.	8-Oct-21
L-208-2021/0	Lowery, Frank		Athenex, Inc.	8-Oct-21
L-208-2021/0	Lu, Yong-Chen		Athenex, Inc.	8-Oct-21
L-208-2021/0	Malekzadeh, Parisa		Athenex, Inc.	8-Oct-21
L-208-2021/0	Paria, Biman		Athenex, Inc.	8-Oct-21
L-208-2021/0	Parkhurst, Maria		Athenex, Inc.	8-Oct-21
L-208-2021/0	Pasetto, Anna		Athenex, Inc.	8-Oct-21
L-208-2021/0	Robbins, Paul F		Athenex, Inc.	8-Oct-21
L-208-2021/0	Rosenberg, Steven A.		Athenex, Inc.	8-Oct-21
L-208-2021/0	Yang, James Chung-Yin		Athenex, Inc.	8-Oct-21
L-208-2021/0	Yoseph, Rami		Athenex, Inc.	8-Oct-21
L-208-2021/0	Zacharakis, Nikolaos		Athenex, Inc.	8-Oct-21
L-208-2021/0	Zhao, Chihao		Athenex, Inc.	8-Oct-21
L-136-2020/0	NCI		Intima Bioscience Inc.	13-Oct-21
L-205-2021/0	NCI		Zelluna Immunotherapy AS	13-Oct-21
L-239-2021/0	Bonomi, Carrie A.	(b) (4)	Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Borgel, Suzanne D.	(b) (6)	Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Dougherty, Kelly		Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Hollingshead, Melinda G.		Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Bonomi, Carrie A.		Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Borgel, Suzanne D.		Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Dougherty, Kelly		Idorsia Pharmaceuticals Ltd	13-Oct-21
L-239-2021/0	Hollingshead, Melinda G.		Idorsia Pharmaceuticals Ltd	13-Oct-21

L-190-2016/1	Bonomi, Carrie A.	(b) (4),	Arcus Biosciences	14-Oct-21	(b) (3) (A), (b) (4), (b) (6)
L-190-2016/1	Borgel, Suzanne D.	(b) (6)	Arcus Biosciences	14-Oct-21	
L-190-2016/1	Dougherty, Kelly		Arcus Biosciences	14-Oct-21	
L-190-2016/1	Hollingshead, Melinda G.		Arcus Biosciences	14-Oct-21	
L-214-2021/0	Greiner, John W.		CLS Cell Lines Service GmbH	14-Oct-21	
L-214-2021/0	Schlom, Jeffrey		CLS Cell Lines Service GmbH	14-Oct-21	
L-216-2021/0	Bonomi, Carrie A.		Stellanova Therapeutics, Inc.	18-Oct-21	
L-216-2021/0	Dougherty, Kelly		Stellanova Therapeutics, Inc.	18-Oct-21	
L-216-2021/0	Hollingshead, Melinda G.		Stellanova Therapeutics, Inc.	18-Oct-21	
L-153-2010/0	Greiner, John W.		Arko Laboratories LTD	25-Oct-21	
L-153-2010/0	Schlom, Jeffrey		Arko Laboratories LTD	25-Oct-21	
L-153-2010/0	Zaharoff, David		Arko Laboratories LTD	25-Oct-21	
L-095-2021/0	Aplan, Peter D.		Daiichi Sankyo Co., Ltd.	25-Oct-21	
L-095-2021/0	Lin, Ying-Wei		Daiichi Sankyo Co., Ltd.	25-Oct-21	
L-095-2021/0	Slape, Christopher I.		Daiichi Sankyo Co., Ltd.	25-Oct-21	
L-095-2021/0	Zhang, ZhenHua		Daiichi Sankyo Co., Ltd.	25-Oct-21	
L-064-2011/0	Barry, Todd		Eptiomics Inc	27-Oct-21	
L-064-2011/0	Rosenwald, Andreas		Eptiomics Inc	27-Oct-21	
L-064-2011/0	Staudt, Louis M		Eptiomics Inc	27-Oct-21	
L-064-2011/0	Wiestner, Adrian		Eptiomics Inc	27-Oct-21	
L-064-2011/0	Wilson, Wyndham H.		Eptiomics Inc	27-Oct-21	
L-232-2019/0	Palena, Claudia		Abcam plc	27-Oct-21	
L-232-2019/0	Schlom, Jeffrey		Abcam plc	27-Oct-21	
L-241-2021/0	Beyer, Rachel K. B.		Lead Discovery Center GmbH	27-Oct-21	
L-241-2021/0	(b) (4)		Lead Discovery Center GmbH	27-Oct-21	
L-241-2021/0	Holderfield, Matthew T.		Lead Discovery Center GmbH	27-Oct-21	
L-241-2021/0	Soppet, Dan		Lead Discovery Center GmbH	27-Oct-21	

NIH Patent Licensing Activities
NCI
November 2021

License	Inventor	Inventor Share %	Inventor Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License	Inventor Awards November	Net Remaining to IC
								Cumulative Income		
L-068-2004/2	NCI		Sillajen Biotherapeutics, Inc	1-Nov-21						(b) (3) (A), (b) (4), (b) (6)
Note: L-068-2004/2 split between NCI; NIAID										
L-086-2015/0	Hanada, Kenichi	(b) (4),	Compugen, Ltd.	1-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-086-2015/0	Rosenberg, Steven A.	(b) (6)	Compugen, Ltd.	1-Nov-21						
L-086-2015/0	Topalian, Suzanne L.		Compugen, Ltd.	1-Nov-21						
L-086-2015/0	Yang, James Chung-Yin		Compugen, Ltd.	1-Nov-21						
L-086-2015/0	Yu, Zhiya		Compugen, Ltd.	1-Nov-21						
L-256-2018/0	Bonomi, Carrie A.		Genentech, Inc.	1-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-256-2018/0	Dougherty, Kelly		Genentech, Inc.	1-Nov-21						
L-256-2018/0	Hollingshead, Melinda G.		Genentech, Inc.	1-Nov-21						
L-015-2020/0	Hamilton, Thomas C		Daiichi Sankyo Co., Ltd.	1-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-015-2020/0	Ozols, Robert F		Daiichi Sankyo Co., Ltd.	1-Nov-21						

L-035-2021/0	Gazdar, (b) (6) Adi	(b) (4)	Daiichi Sankyo Co., Ltd.	1-Nov-21
L-035-2021/0	Johnson, Bruce E	(b) (6)	Daiichi Sankyo Co., Ltd.	1-Nov-21
L-035-2021/0	Kaye, Frederic J		Daiichi Sankyo Co., Ltd.	1-Nov-21
L-035-2021/0	Khleif, Samir N.		Daiichi Sankyo Co., Ltd.	1-Nov-21
L-035-2021/0	Minna, John D.		Daiichi Sankyo Co., Ltd.	1-Nov-21
L-035-2021/0	Oie (b) (6) Herbert K		Daiichi Sankyo Co., Ltd.	1-Nov-21
L-035-2021/0	Pass, Harvey I		Daiichi Sankyo Co., Ltd.	1-Nov-21
L-026-2005/8	NCI		MedImmune, Inc.	2-Nov-21
L-093-2010/1	Chang, Nancy T.	(b)	BioLytical Labs	2-Nov-21
L-093-2010/1	Crowl, Robert	(4)	BioLytical Labs	2-Nov-21
L-093-2010/1	Gallo, Robert C.	(b) (6)	BioLytical Labs	2-Nov-21
L-093-2010/1	(b) (4)		BioLytical Labs	2-Nov-21
L-093-2010/1	Reddy, E. Premkumar.		BioLytical Labs	2-Nov-21
L-093-2010/1	Shaw, George M		BioLytical Labs	2-Nov-21
L-093-2010/1	Wong-Staa (b) (6)		BioLytical Labs	2-Nov-21
L-208-2021/1	NCI		Athenex, Inc.	2-Nov-21
L-218-2020/0	Franchini, Genoveffa	(b) (4)	Charles River Laboratories, Inc.	3-Nov-21
L-218-2020/0	Gallo, Robert C.	(b) (6)	Charles River Laboratories, Inc.	3-Nov-21
L-218-2020/0	Kalyanaraman, Vaniambadi S.		Charles River Laboratories, Inc.	3-Nov-21
L-218-2020/0	Markham, Phillip D.		Charles River Laboratories, Inc.	3-Nov-21
L-218-2020/0	Salahuddin, Syed Z.		Charles River Laboratories, Inc.	3-Nov-21
L-218-2020/0	Wong-Staa (b) (6)		Charles River Laboratories, Inc.	3-Nov-21
L-021-2022/0	Bonomi, Carrie A.		Chimeron Bio	3-Nov-21
L-021-2022/0	Borgel, Suzanne D.		Chimeron Bio	3-Nov-21
L-021-2022/0	Dougherty, Kelly		Chimeron Bio	3-Nov-21
L-021-2022/0	Hollingshead, Melinda G.		Chimeron Bio	3-Nov-21
L-190-2019/5	NCI		ZioPharm Oncology, Inc.	4-Nov-21
L-310-2019/1	Bonomi, Carrie A.	(b) (4)	Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-310-2019/1	Borgel, Suzanne D.	(b) (6)	Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-310-2019/1	Dougherty, Kelly		Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-310-2019/1	Hollingshead, Melinda G.		Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-111-2021/0	Hamilton, Thomas C		Engine Biosciences, Inc.	4-Nov-21
L-111-2021/0	Ozols, Robert F		Engine Biosciences, Inc.	4-Nov-21
L-148-2021/0	Bonomi, Carrie A.		Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-148-2021/0	Dougherty, Kelly		Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-148-2021/0	Hollingshead, Melinda G.		Regeneron Pharmaceuticals, Inc.	4-Nov-21
L-266-2000/1	Aaronson, Stuart A.		PeproTech, Inc.	5-Nov-21
L-266-2000/1	Finch, Paul W.		PeproTech, Inc.	5-Nov-21
L-266-2000/1	Rubin, Jeffrey S		PeproTech, Inc.	5-Nov-21
L-070-2021/1	Bonomi, Carrie A.		Eisai Co., Ltd.	5-Nov-21
L-070-2021/1	Dougherty, Kelly		Eisai Co., Ltd.	5-Nov-21
L-070-2021/1	Hollingshead, Melinda G.		Eisai Co., Ltd.	5-Nov-21
L-126-2021/0	Bonomi, Carrie A.		Calico Life Sciences	5-Nov-21
L-126-2021/0	Borgel, Suzanne D.		Calico Life Sciences	5-Nov-21
L-126-2021/0	Dougherty, Kelly		Calico Life Sciences	5-Nov-21
L-126-2021/0	Hollingshead, Melinda G.		Calico Life Sciences	5-Nov-21

L-047-2006/2	Chang, Nancy T.	(b) (4)	Chembio Diagnostic	8-Nov-21	(b) (3) (A), (b) (4), (b) (6)
L-047-2006/2	Crowl, Robert	(b) (6)	Chembio Diagnostic	8-Nov-21	
L-047-2006/2	Gallo, Robert C.		Chembio Diagnostic	8-Nov-21	
L-047-2006/2	(b) (4)		Chembio Diagnostic	8-Nov-21	
L-047-2006/2	Reddy, E. Premkumar.		Chembio Diagnostic	8-Nov-21	
L-047-2006/2	Shaw, George M		Chembio Diagnostic	8-Nov-21	
L-047-2006/2	Wong-Staal (b) (6)		Chembio Diagnostic	8-Nov-21	
L-030-2018/0	Bonomi, Carrie A.		23andMe Therapeutics	9-Nov-21	
L-030-2018/0	Borgel, Suzanne D.		23andMe Therapeutics	9-Nov-21	
L-030-2018/0	Dougherty, Kelly		23andMe Therapeutics	9-Nov-21	
L-030-2018/0	Hollingshead, Melinda G.		23andMe Therapeutics	9-Nov-21	
L-120-2020/1	Gazdar, (b) (6) Adi		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-120-2020/1	Johnson, Bruce E		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-120-2020/1	Kaye, Frederic J		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-120-2020/1	Khleif, Samir N.		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-120-2020/1	Minna, John D.		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-120-2020/1	Oie, (b) (6) Herbert K		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-120-2020/1	Pass, Harvey I		Daiichi Sankyo Co., Ltd	10-Nov-21	
L-108-2009/0	Conrads, Thomas P		AB Sciex, LLC	12-Nov-21	
L-108-2009/0	Issaq, Haleem J.		AB Sciex, LLC	12-Nov-21	
L-108-2009/0	Janini, George		AB Sciex, LLC	12-Nov-21	
L-108-2009/0	Veenstra, Timothy D		AB Sciex, LLC	12-Nov-21	
L-108-2009/0	Wilkens, Kenneth L.		AB Sciex, LLC	12-Nov-21	
L-045-2019/2	Bonomi, Carrie A.		Alligator Bioscience AB	12-Nov-21	
L-045-2019/2	Borgel, Suzanne D.		Alligator Bioscience AB	12-Nov-21	
L-045-2019/2	Dougherty, Kelly		Alligator Bioscience AB	12-Nov-21	
L-045-2019/2	Hollingshead, Melinda G.		Alligator Bioscience AB	12-Nov-21	
L-045-2019/2	Schlom, Jeffrey		Alligator Bioscience AB	12-Nov-21	
L-149-2019/0	NCI		Kite Pharma	12-Nov-21	
L-148-2021/0	Bonomi, Carrie A.	(b) (4)	Regeneron Pharmaceuticals, Inc.	12-Nov-21	
L-148-2021/0	Dougherty, Kelly	(b) (6)	Regeneron Pharmaceuticals, Inc.	12-Nov-21	
L-148-2021/0	Hollingshead, Melinda G.		Regeneron Pharmaceuticals, Inc.	12-Nov-21	
L-151-2021/0	Bonomi, Carrie A.		Anaveon AG	12-Nov-21	
L-151-2021/0	Borgel, Suzanne D.		Anaveon AG	12-Nov-21	
L-151-2021/0	Dougherty, Kelly		Anaveon AG	12-Nov-21	
L-151-2021/0	Hollingshead, Melinda G.		Anaveon AG	12-Nov-21	
L-117-1995/2	Hathcock, Karen		Southern Biotechnology Associates, Inc.	15-Nov-21	
L-117-1995/2	Hodes, Richard J		Southern Biotechnology Associates, Inc.	15-Nov-21	
L-117-1995/2	Laszlo, Gloria		Southern Biotechnology Associates, Inc.	15-Nov-21	
<i>Note: L-117-1995/2 split between NCI; NIA</i>					
L-308-2017/0	Fowler, Daniel		Rapa Therapeutics LLC	15-Nov-21	
L-308-2017/0	Gress, Ronald E.		Rapa Therapeutics LLC	15-Nov-21	
L-308-2017/0	Jung, Unsu		Rapa Therapeutics LLC	15-Nov-21	
L-263-2019/0	Hanada, Kenichi		Teralmune LLC	15-Nov-21	
L-263-2019/0	Yang, James Chung-Yin		Teralmune LLC	15-Nov-21	
L-263-2019/0	Yu, Zhiya		Teralmune LLC	15-Nov-21	
L-168-2021/0	Aaronson, Stuart A.		Genentech, Inc	15-Nov-21	
L-168-2021/0	Ellmore, Nelson		Genentech, Inc	15-Nov-21	

L-279-2017/0	Bonomi, Carrie A.	(b) (4), OncoDesignBiotechnology	16-Nov-21
L-279-2017/0	Borgel, Suzanne D.	(b) (6) OncoDesignBiotechnology	16-Nov-21
L-279-2017/0	Dougherty, Kelly	OncoDesignBiotechnology	16-Nov-21
L-279-2017/0	Hollingshead, Melinda G.	OncoDesignBiotechnology	16-Nov-21
L-302-2017/0	Bonomi, Carrie A.	Pfizer Global Research & Development	16-Nov-21
L-302-2017/0	Borgel, Suzanne D.	Pfizer Global Research & Development	16-Nov-21
L-302-2017/0	Dougherty, Kelly	Pfizer Global Research & Development	16-Nov-21
L-302-2017/0	Hollingshead, Melinda G.	Pfizer Global Research & Development	16-Nov-21
L-165-2021/0	Gazdar, (b) (6) Adi	Vibliome Operations, LLC.	16-Nov-21
L-165-2021/0	Johnson, Bruce E	Vibliome Operations, LLC.	16-Nov-21
L-165-2021/0	Kaye, Frederic J	Vibliome Operations, LLC.	16-Nov-21
L-165-2021/0	Khleif, Samir N.	Vibliome Operations, LLC.	16-Nov-21
L-165-2021/0	Minna, John D.	Vibliome Operations, LLC.	16-Nov-21
L-165-2021/0	Oie, (b) (6) Herbert K	Vibliome Operations, LLC.	16-Nov-21
L-165-2021/0	Pass, Harvey I	Vibliome Operations, LLC.	16-Nov-21
L-082-1996/1	Chang, Nancy T.	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Crowl, Robert	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Fisher, Amanda G.	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Gallo, Robert C.	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Hahn, Beatrice	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	(b) (4)	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Popovic, Mikulas	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Reddy, E. Premkumar.	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Samgadharan, Mangalasseril	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Shaw, George M	ZeptoMetrix Corp.	17-Nov-21
L-082-1996/1	Wong-Staal (b) (6)	ZeptoMetrix Corp.	17-Nov-21
L-039-2011/0	Onda, Masanori	Rockland Immunochemicals, Inc.	17-Nov-21
L-039-2011/0	Pastan, Ira H	Rockland Immunochemicals, Inc.	17-Nov-21
L-099-2012/0	Gazdar, (b) (6) Adi	Ventana Medical Systems Inc	17-Nov-21
L-099-2012/0	Johnson, Bruce E	Ventana Medical Systems Inc	17-Nov-21
L-099-2012/0	Kaye, Frederic J	Ventana Medical Systems Inc	17-Nov-21
L-099-2012/0	Khleif, Samir N.	Ventana Medical Systems Inc	17-Nov-21
L-099-2012/0	Minna, John D.	Ventana Medical Systems Inc	17-Nov-21
L-099-2012/0	Oie, (b) (6) Herbert K	Ventana Medical Systems Inc	17-Nov-21
L-099-2012/0	Pass, Harvey I	Ventana Medical Systems Inc	17-Nov-21
L-014-2016/0	Hodge, James W.	Transgene SA	17-Nov-21
L-014-2016/0	Schlom, Jeffrey	Transgene SA	17-Nov-21
L-056-2020/0	Gazdar, (b) (6) Adi	Amplify Medicines	17-Nov-21
L-056-2020/0	Johnson, Bruce E	Amplify Medicines	17-Nov-21
L-056-2020/0	Kaye, Frederic J	Amplify Medicines	17-Nov-21
L-056-2020/0	Khleif, Samir N.	Amplify Medicines	17-Nov-21
L-056-2020/0	Minna, John D.	Amplify Medicines	17-Nov-21
L-056-2020/0	Oie, (b) (6) Herbert K	Amplify Medicines	17-Nov-21
L-056-2020/0	Pass, Harvey I	Amplify Medicines	17-Nov-21
L-100-2021/0	Bonomi, Carrie A.	Cellarity, Inc	17-Nov-21
L-100-2021/0	Borgel, Suzanne D.	Cellarity, Inc	17-Nov-21
L-100-2021/0	Dougherty, Kelly	Cellarity, Inc	17-Nov-21
L-100-2021/0	Hollingshead, Melinda G.	Cellarity, Inc	17-Nov-21
L-210-2021/0	Aplan, Peter D.	Agios Pharmaceuticals, Inc	17-Nov-21

(b) (3) (A), (b) (4), (b) (6)

L-210-2021/0	Lin, Ying-Wei	(b) (4), Agios Pharmaceuticals, Inc	17-Nov-21
L-210-2021/0	Slape, Christopher I.	(b) (6) Agios Pharmaceuticals, Inc	17-Nov-21
L-210-2021/0	Zhang, ZhenHua	Agios Pharmaceuticals, Inc	17-Nov-21
L-005-2022/0	Bonomi, Carrie A.	Dicerna Pharmaceuticals, Inc	17-Nov-21
L-005-2022/0	Borgel, Suzanne D.	Dicerna Pharmaceuticals, Inc	17-Nov-21
L-005-2022/0	Dougherty, Kelly	Dicerna Pharmaceuticals, Inc	17-Nov-21
L-005-2022/0	Hollingshead, Melinda G.	Dicerna Pharmaceuticals, Inc	17-Nov-21
L-333-2001/1	Gallo, Robert C.	ZeptoMetrix Corporation	18-Nov-21
L-333-2001/1	Lusso, Paolo	ZeptoMetrix Corporation	18-Nov-21
L-198-2020/0	Dimitrov, Dimiter S.	Children's Hospital of Philadelphia (CHO	18-Nov-21
L-198-2020/0	Jelev, Dontcho	Children's Hospital of Philadelphia (CHO	18-Nov-21
L-198-2020/0	Zhu, Zhongyu	Children's Hospital of Philadelphia (CHO	18-Nov-21
L-237-2020/0	Bonomi, Carrie A.	Phenomic AI	18-Nov-21
L-237-2020/0	Borgel, Suzanne D.	Phenomic AI	18-Nov-21
L-237-2020/0	Dougherty, Kelly	Phenomic AI	18-Nov-21
L-237-2020/0	Hollingshead, Melinda G.	Phenomic AI	18-Nov-21
L-021-2022/0	Bonomi, Carrie A.	Chimeron Bio	18-Nov-21
L-021-2022/0	Borgel, Suzanne D.	Chimeron Bio	18-Nov-21
L-021-2022/0	Dougherty, Kelly	Chimeron Bio	18-Nov-21
L-021-2022/0	Hollingshead, Melinda G.	Chimeron Bio	18-Nov-21
L-242-2017/0	Schlom, Jeffrey	Amal Therapeutics	19-Nov-21
L-248-2020/0	Hamilton, Thomas C	Ciscovery Bio Inc.	19-Nov-21
L-248-2020/0	Ozols, Robert F	Ciscovery Bio Inc.	19-Nov-21
L-123-2017/0	Bonomi, Carrie A.	Lupin Ltd.	22-Nov-21
L-123-2017/0	Dougherty, Kelly	Lupin Ltd.	22-Nov-21
L-123-2017/0	Hollingshead, Melinda G.	Lupin Ltd.	22-Nov-21
L-225-2019/0	Gallo, Robert C.	Biotest AG	22-Nov-21
L-225-2019/0	Popovic, Mikulas	Biotest AG	22-Nov-21
L-136-2021/0	Gazdar, (b) (6) Adi	Vibliome Operations, LLC.	23-Nov-21
L-136-2021/0	Johnson, Bruce E	Vibliome Operations, LLC.	23-Nov-21
L-136-2021/0	Kaye, Frederic J	Vibliome Operations, LLC.	23-Nov-21
L-136-2021/0	Khleif, Samir N.	Vibliome Operations, LLC.	23-Nov-21
L-136-2021/0	Minna, John D.	Vibliome Operations, LLC.	23-Nov-21
L-136-2021/0	Oie, (b) (6) Herbert K	Vibliome Operations, LLC.	23-Nov-21
L-136-2021/0	Pass, Harvey I	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Gazdar, (b) (6) Adi	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Johnson, Bruce E	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Kaye, Frederic J	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Khleif, Samir N.	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Minna, John D.	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Oie, (b) (6) Herbert K	Vibliome Operations, LLC.	23-Nov-21
L-184-2021/0	Pass, Harvey I	Vibliome Operations, LLC.	23-Nov-21
L-208-2013/0	Bernardo, Marcelino L (b) (6)	Aspyrian THerapeutics, Inc.	24-Nov-21
L-208-2013/0	Choyke, Peter L	Aspyrian THerapeutics, Inc.	24-Nov-21
L-208-2013/0	Kobayashi, Hisataka	Aspyrian THerapeutics, Inc.	24-Nov-21
L-208-2013/0	Mitsunaga, Makoto	Aspyrian THerapeutics, Inc.	24-Nov-21

(b) (3) (A), (b) (4), (b) (6)

L-117-2017/0	Choyke, Peter L	(b) (4)	Aspyrian Therapeutics, Inc.	24-Nov-21
L-117-2017/0	Kobayashi, Hisataka	(b) (6)	Aspyrian Therapeutics, Inc.	24-Nov-21
L-117-2017/0	Sato, Kazuhide		Aspyrian Therapeutics, Inc.	24-Nov-21
L-117-2017/0	Sato, Noriko		Aspyrian Therapeutics, Inc.	24-Nov-21
L-252-2017/0	Bonomi, Carrie A.		Champions Oncology, Inc.	24-Nov-21
L-252-2017/0	Borgel, Suzanne D.		Champions Oncology, Inc.	24-Nov-21
L-252-2017/0	Dougherty, Kelly		Champions Oncology, Inc.	24-Nov-21
L-252-2017/0	Hollingshead, Melinda G.		Champions Oncology, Inc.	24-Nov-21
L-272-2018/0	Aaronson, Stuart A.		CellSeed, Inc	24-Nov-21
L-272-2018/0	Jainchill, John L.		CellSeed, Inc	24-Nov-21
L-272-2018/0	Todaro, George J.		CellSeed, Inc	24-Nov-21
L-058-2021/0	Gazdar (b) (6) Adi		Erasca, Inc.	24-Nov-21
L-058-2021/0	Johnson, Bruce E		Erasca, Inc.	24-Nov-21
L-058-2021/0	Kaye, Frederic J		Erasca, Inc.	24-Nov-21
L-058-2021/0	Khleif, Samir N.		Erasca, Inc.	24-Nov-21
L-058-2021/0	Minna, John D.		Erasca, Inc.	24-Nov-21
L-058-2021/0	Oie (b) (6) Herbert K		Erasca, Inc.	24-Nov-21
L-058-2021/0	Pass, Harvey I		Erasca, Inc.	24-Nov-21
L-014-2022/0	Bonomi, Carrie A.		eTheRNA immunotherapies	24-Nov-21
L-014-2022/0	Borgel, Suzanne D.		eTheRNA immunotherapies	24-Nov-21
L-014-2022/0	Dougherty, Kelly		eTheRNA immunotherapies	24-Nov-21
L-014-2022/0	Hollingshead, Melinda G.		eTheRNA immunotherapies	24-Nov-21
L-032-2006/2	NCI		Eisai Inc	26-Nov-21
L-054-2010/3	NCI		Research Corp Techn. Inc.	26-Nov-21
L-109-2015/0	Brinkmann, Ulrich	(b) (4)	Chugai Pharmaceutical Co.	26-Nov-21
L-109-2015/0	Jung, Sun-Hee	(b) (6)	Chugai Pharmaceutical Co.	26-Nov-21
L-109-2015/0	Lee, Byungkook		Chugai Pharmaceutical Co.	26-Nov-21
L-109-2015/0	Pastan, Ira H		Chugai Pharmaceutical Co.	26-Nov-21
L-098-2017/0	Buck, Christopher		SK Chemicals	26-Nov-21
L-098-2017/0	Schiller, John T		SK Chemicals	26-Nov-21
L-331-2017/1	NCI		Istari Oncology Inc	26-Nov-21
L-253-2018/3	Bonomi, Carrie A.	(b) (4)	Yuhan R&D Institute	26-Nov-21
L-253-2018/3	Borgel, Suzanne D.	(b) (6)	Yuhan R&D Institute	26-Nov-21
L-253-2018/3	Dougherty, Kelly		Yuhan R&D Institute	26-Nov-21
L-253-2018/3	Hollingshead, Melinda G.		Yuhan R&D Institute	26-Nov-21
L-229-2020/0	Beyer, Rachel K. B.		Frontier Medicines Corporation	26-Nov-21
L-229-2020/0	(b) (4)		Frontier Medicines Corporation	26-Nov-21
L-229-2020/0	Holderfield, Matthew T.		Frontier Medicines Corporation	26-Nov-21
L-229-2020/0	Soppet, Dan		Frontier Medicines Corporation	26-Nov-21
L-134-2021/0	Bonomi, Carrie A.		Yuhan R&D Institute	26-Nov-21
L-134-2021/0	Dougherty, Kelly		Yuhan R&D Institute	26-Nov-21
L-134-2021/0	Hollingshead, Melinda G.		Yuhan R&D Institute	26-Nov-21
L-003-2022/0	Bonomi, Carrie A.		FibroGen, Inc.	26-Nov-21
L-003-2022/0	Borgel, Suzanne D.		FibroGen, Inc.	26-Nov-21
L-003-2022/0	Dougherty, Kelly		FibroGen, Inc.	26-Nov-21
L-003-2022/0	Hollingshead, Melinda G.		FibroGen, Inc.	26-Nov-21

(b) (3) (A), (b) (4), (b) (6)

L-019-2022/0	Kouprina, Natalay Y	(b) (4) Replay Holdings, LLC	26-Nov-21
L-019-2022/0	Larionov, Vladimir L	(b) (6) Replay Holdings, LLC	26-Nov-21
L-019-2022/0	Noskov, Vladimir	Replay Holdings, LLC	26-Nov-21
L-029-2022/0	Bonomi, Carrie A.	Dren Bio, Inc.	26-Nov-21
L-029-2022/0	Borgel, Suzanne D.	Dren Bio, Inc.	26-Nov-21
L-029-2022/0	Dougherty, Kelly	Dren Bio, Inc.	26-Nov-21
L-029-2022/0	Hollingshead, Melinda G.	Dren Bio, Inc.	26-Nov-21
L-165-1999/1	Crowl, Robert	Trinity Biotech	29-Nov-21
L-165-1999/1	Gallo, Robert C.	Trinity Biotech	29-Nov-21
L-165-1999/1	(b) (4)	Trinity Biotech	29-Nov-21
L-165-1999/1	Popovic, Mikulas	Trinity Biotech	29-Nov-21
L-165-1999/1	Reddy, E. Premkumar.	Trinity Biotech	29-Nov-21
L-165-1999/1	Sarnagadharan, Mangalasseril	Trinity Biotech	29-Nov-21
L-165-1999/1	Shaw, George M	Trinity Biotech	29-Nov-21
L-165-1999/1	Wong-Staal (b) (6)	Trinity Biotech	29-Nov-21
L-048-2020/0	Esposito, Dominic	Arvinas Operations, Inc	29-Nov-21
L-048-2020/0	Gillette, William K.	Arvinas Operations, Inc	29-Nov-21
L-048-2020/0	Groese, Carissa L.	Arvinas Operations, Inc	29-Nov-21
L-212-2021/0	Robbins, Paul F	BioNTech US, Inc	29-Nov-21
L-212-2021/0	Rosenberg, Steven A.	BioNTech US, Inc	29-Nov-21
L-212-2021/0	Yao, Xin	BioNTech US, Inc	29-Nov-21
L-034-2022/0	Brash, Douglas	Respiratorius AB	29-Nov-21
L-034-2022/0	Gerwin, Brenda I.	Respiratorius AB	29-Nov-21
L-034-2022/0	Harris, Curtis C.	Respiratorius AB	29-Nov-21
L-034-2022/0	Reddel, Roger R.	Respiratorius AB	29-Nov-21
L-034-2022/0	Rhim, Johng S.	Respiratorius AB	29-Nov-21
L-034-2022/0	Yang, Ke	Respiratorius AB	29-Nov-21
L-154-1997/2	Mason, Llewellyn H.	BD Biosciences - BD PharMingen	30-Nov-21
L-154-1997/2	Ortaldo, John R.	BD Biosciences - BD PharMingen	30-Nov-21
L-097-2000/3	Austin, Faye C.	BD Biosciences, PharMingen	30-Nov-21
L-097-2000/3	Colcher, David	BD Biosciences, PharMingen	30-Nov-21
L-097-2000/3	Hand, Patricia H.	BD Biosciences, PharMingen	30-Nov-21
L-097-2000/3	Nuti, Marianna	BD Biosciences, PharMingen	30-Nov-21
L-097-2000/3	Schlom, Jeffrey	BD Biosciences, PharMingen	30-Nov-21
L-081-2021/0	Hinrichs, Christian S.	Rubius Therapeutics, Inc.	30-Nov-21
L-081-2021/0	Rosenberg, Steven A.	Rubius Therapeutics, Inc.	30-Nov-21
L-003-2022/0	Bonomi, Carrie A.	FibroGen, Inc.	30-Nov-21
L-003-2022/0	Borgel, Suzanne D.	FibroGen, Inc.	30-Nov-21
L-003-2022/0	Dougherty, Kelly	FibroGen, Inc.	30-Nov-21
L-003-2022/0	Hollingshead, Melinda G.	FibroGen, Inc.	30-Nov-21
L-037-2022/0	Dimitrov, Dimitar S.	Engage Biologics, Inc.	30-Nov-21
L-037-2022/0	Feng, Mingqian	Engage Biologics, Inc.	30-Nov-21
L-037-2022/0	Gao, Wei	Engage Biologics, Inc.	30-Nov-21
L-037-2022/0	Ho, Mitchell	Engage Biologics, Inc.	30-Nov-21
L-037-2022/0	Kim, Heungnam	Engage Biologics, Inc.	30-Nov-21

NCI
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License	Inventor Awards December	Net Remaining to IC
								Cumulative Income		
L-088-2019/0	Beyer, Rachel K. B.	(b) (4)	Erasca, Inc.	1-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-088-2019/0	(b) (4)		Erasca, Inc.	1-Dec-21						
L-088-2019/0	Holderfield, Matthew T.	(b) (6)	Erasca, Inc.	1-Dec-21						
L-088-2019/0	Soppet, Dan		Erasca, Inc.	1-Dec-21						
L-206-2020/0	Rosenberg, Steven A.		Oncodesign Biotechnology	1-Dec-21						
L-206-2020/0	Spiese, Paul J		Oncodesign Biotechnology	1-Dec-21						
L-206-2020/0	Yang, James Chung-Yin		Oncodesign Biotechnology	1-Dec-21						
L-006-2022/1	Bonomi, Carrie A.		Notch Therapeutics Canada Inc.	1-Dec-21						
L-006-2022/1	Borgel, Suzanne D.		Notch Therapeutics Canada Inc.	1-Dec-21						
L-006-2022/1	Dougherty, Kelly		Notch Therapeutics Canada Inc.	1-Dec-21						
L-006-2022/1	Hollingshead, Melinda G.		Notch Therapeutics Canada Inc.	1-Dec-21						
L-046-2019/0	Bonomi, Carrie A.		Dragonfly Therapeutics	3-Dec-21						
L-046-2019/0	Borgel, Suzanne D.		Dragonfly Therapeutics	3-Dec-21						
L-046-2019/0	Dougherty, Kelly		Dragonfly Therapeutics	3-Dec-21						
L-046-2019/0	Hollingshead, Melinda G.		Dragonfly Therapeutics	3-Dec-21						
L-046-2019/0	Schlom, Jeffrey		Dragonfly Therapeutics	3-Dec-21						
L-172-2021/0	Hamilton, Thomas C		Genentech, Inc.	3-Dec-21						
L-172-2021/0	Ozols, Robert F		Genentech, Inc.	3-Dec-21						
L-179-2021/0	Beyer, Rachel K. B.	(b) (4)	Treeline Biosciences, Inc.	3-Dec-21						
L-179-2021/0	(b) (4)		Treeline Biosciences, Inc.	3-Dec-21						
L-179-2021/0	Holderfield, Matthew T.		Treeline Biosciences, Inc.	3-Dec-21						
L-179-2021/0	Soppet, Dan		Treeline Biosciences, Inc.	3-Dec-21						
L-234-2021/0	Bonomi, Carrie A.		Yakult Central Institute	3-Dec-21						
L-234-2021/0	Borgel, Suzanne D.		Yakult Central Institute	3-Dec-21						
L-234-2021/0	Dougherty, Kelly		Yakult Central Institute	3-Dec-21						
L-234-2021/0	Hollingshead, Melinda G.		Yakult Central Institute	3-Dec-21						
L-017-2022/0	Bonomi, Carrie A.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Borgel, Suzanne D.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Dougherty, Kelly		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Hollingshead, Melinda G.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Bonomi, Carrie A.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Borgel, Suzanne D.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Dougherty, Kelly		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Hollingshead, Melinda G.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Bonomi, Carrie A.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Borgel, Suzanne D.		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Dougherty, Kelly		Obsidian Therapeutics	3-Dec-21						
L-017-2022/0	Hollingshead, Melinda G.		Obsidian Therapeutics	3-Dec-21						
L-132-2021/0	Beyer, Rachel K. B.	(b) (4)	Elicio Therapeutics	6-Dec-21						
L-132-2021/0	(b) (4)		Elicio Therapeutics	6-Dec-21						
L-132-2021/0	Holderfield, Matthew T.		Elicio Therapeutics	6-Dec-21						
L-132-2021/0	Soppet, Dan		Elicio Therapeutics	6-Dec-21						

L-249-2021/0	Gazdar, (b) (6) Adi	(b) (4), Ventana Medical Systems, Inc.	6-Dec-21
L-249-2021/0	Johnson, Bruce E	(b) (6) Ventana Medical Systems, Inc.	6-Dec-21
L-249-2021/0	Kaye, Frederic J	Ventana Medical Systems, Inc.	6-Dec-21
L-249-2021/0	Khleif, Samir N.	Ventana Medical Systems, Inc.	6-Dec-21
L-249-2021/0	Minna, John D.	Ventana Medical Systems, Inc.	6-Dec-21
L-249-2021/0	Oie (b) (6) Herbert K	Ventana Medical Systems, Inc.	6-Dec-21
L-249-2021/0	Pass, Harvey I	Ventana Medical Systems, Inc.	6-Dec-21
L-162-2014/1	Gottesman, Michael M.	Pfizer, Inc.	7-Dec-21
L-162-2014/1	Pastan, Ira H	Pfizer, Inc.	7-Dec-21
L-162-2014/1	Ueda, Kazumitsu	Pfizer, Inc.	7-Dec-21
L-224-2015/0	Kochenderfer, James N	2seventy bio	7-Dec-21
L-069-2020/0	(b) (4)	Arvinas Operations, Inc.	7-Dec-21
L-069-2020/0	Esposito, Dominic	Arvinas Operations, Inc.	7-Dec-21
L-069-2020/0	Hopkins, Ralph F.	Arvinas Operations, Inc.	7-Dec-21
L-069-2020/0	Roberts, Veronica Ann	Arvinas Operations, Inc.	7-Dec-21
L-183-2020/0	Felber, Barbara K.	Frontier Biotechnologies Inc.	7-Dec-21
L-183-2020/0	Pavlakis, George N	Frontier Biotechnologies Inc.	7-Dec-21
L-221-2019/0	Franchini, Genoveffa	Genosafe SAS	8-Dec-21
L-221-2019/0	Gallo, Robert C.	Genosafe SAS	8-Dec-21
L-221-2019/0	Kalyanaraman, Vaniambadi S.	Genosafe SAS	8-Dec-21
L-221-2019/0	Markham, Phillip D.	Genosafe SAS	8-Dec-21
L-221-2019/0	Salahuddin, Syed Z.	Genosafe SAS	8-Dec-21
L-221-2019/0	Wong-Staal (b) (6)	Genosafe SAS	8-Dec-21
L-247-2021/0	Copeland, Neal	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Costantino, Nina	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Court, Donald	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Jenkins Copeland, Nancy A	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Warming, Soren	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Copeland, Neal	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Costantino, Nina	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Court, Donald	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Jenkins Copeland, Nancy A	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Warming, Soren	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Copeland, Neal	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Costantino, Nina	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Court, Donald	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Jenkins Copeland, Nancy A	Gilead Sciences, Inc.	8-Dec-21
L-247-2021/0	Warming, Soren	Gilead Sciences, Inc.	8-Dec-21
L-071-2021/0	Bonomi, Carrie A.	Takeda Pharmaceutical Company Ltd	9-Dec-21
L-071-2021/0	Dougherty, Kelly	Takeda Pharmaceutical Company Ltd	9-Dec-21
L-071-2021/0	Hollingshead, Melinda G.	Takeda Pharmaceutical Company Ltd	9-Dec-21
L-039-2022/0	Beyer, Rachel K. B.	Boragen, Inc.	9-Dec-21
L-039-2022/0	(b) (4)	Boragen, Inc.	9-Dec-21
L-039-2022/0	Holderfield, Matthew T.	Boragen, Inc.	9-Dec-21
L-039-2022/0	Soppet, Dan	Boragen, Inc.	9-Dec-21
L-039-2022/0	Beyer, Rachel K. B.	Boragen, Inc.	9-Dec-21
L-039-2022/0	(b) (4)	Boragen, Inc.	9-Dec-21
L-039-2022/0	Holderfield, Matthew T.	Boragen, Inc.	9-Dec-21

L-039-2022/0	Soppet, Dan	(b) (4), Boragen, Inc.	9-Dec-21
L-191-2018/0	Bonomi, Carrie A.	(b) (6), Palleon Pharmaceuticals	10-Dec-21
L-191-2018/0	Borgel, Suzanne D.	Palleon Pharmaceuticals	10-Dec-21
L-191-2018/0	Dougherty, Kelly	Palleon Pharmaceuticals	10-Dec-21
L-191-2018/0	Hollingshead, Melinda G.	Palleon Pharmaceuticals	10-Dec-21
L-207-2021/0	Gazdar, (b) (6) Adi	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-207-2021/0	Johnson, Bruce E	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-207-2021/0	Kaye, Frederic J	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-207-2021/0	Khleif, Samir N.	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-207-2021/0	Minna, John D.	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-207-2021/0	Oie, (b) (6) Herbert K	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-207-2021/0	Pass, Harvey I	Daiichi Sankyo Co., Ltd.	10-Dec-21
L-020-2022/0	Chen, Weizao	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Dimitrov, Dimiter S.	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Ponraj, Prabakaran	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Ying, Tianlei	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Chen, Weizao	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Dimitrov, Dimiter S.	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Ponraj, Prabakaran	Caring Cross, Inc.	10-Dec-21
L-020-2022/0	Ying, Tianlei	Caring Cross, Inc.	10-Dec-21
L-169-2015/2	Gottesman, Michael M.	Enanta Pharmaceuticals, Inc.	13-Dec-21
L-169-2015/2	Pastan, Ira H	Enanta Pharmaceuticals, Inc.	13-Dec-21
L-169-2015/2	Ueda, Kazumitsu	Enanta Pharmaceuticals, Inc.	13-Dec-21
L-042-2021/0	Copeland, Neal	Solid Biosciences Inc.	13-Dec-21
L-042-2021/0	Costantino, Nina	Solid Biosciences Inc.	13-Dec-21
L-042-2021/0	Court, Donald	Solid Biosciences Inc.	13-Dec-21
L-042-2021/0	Jenkins Copeland, Nancy A	Solid Biosciences Inc.	13-Dec-21
L-042-2021/0	Warming, Soren	Solid Biosciences Inc.	13-Dec-21
L-108-2009/0	Conrads, Thomas P	AB Sciex, LLC	14-Dec-21
L-108-2009/0	Issaq, Haleem J.	AB Sciex, LLC	14-Dec-21
L-108-2009/0	Janini, George	AB Sciex, LLC	14-Dec-21
L-108-2009/0	Veenstra, Timothy D	AB Sciex, LLC	14-Dec-21
L-108-2009/0	Wilkens, Kenneth L.	AB Sciex, LLC	14-Dec-21
L-039-2011/0	Onda, Masanori	Rockland Immunochemicals, Inc.	14-Dec-21
L-039-2011/0	Pastan, Ira H	Rockland Immunochemicals, Inc.	14-Dec-21
L-302-2017/0	Bonomi, Carrie A.	Pfizer Global Research & Development	14-Dec-21
L-302-2017/0	Borgel, Suzanne D.	Pfizer Global Research & Development	14-Dec-21
L-302-2017/0	Dougherty, Kelly	Pfizer Global Research & Development	14-Dec-21
L-302-2017/0	Hollingshead, Melinda G.	Pfizer Global Research & Development	14-Dec-21
L-100-2018/0	Bonomi, Carrie A.	Codiak Biosciences	14-Dec-21
L-100-2018/0	Borgel, Suzanne D.	Codiak Biosciences	14-Dec-21
L-100-2018/0	Dougherty, Kelly	Codiak Biosciences	14-Dec-21
L-100-2018/0	Hollingshead, Melinda G.	Codiak Biosciences	14-Dec-21
L-107-2018/0	Bonomi, Carrie A.	Codiak Biosciences	14-Dec-21
L-107-2018/0	Dougherty, Kelly	Codiak Biosciences	14-Dec-21
L-107-2018/0	Hollingshead, Melinda G.	Codiak Biosciences	14-Dec-21
L-148-2018/1	(b) (4)	BravoVax Co., Ltd.	14-Dec-21

(b) (3) (A), (b) (4), (b) (6)

L-148-2018/1	Lowy, Douglas R.	(b) (4)	BravoVax Co., Ltd.	14-Dec-21
L-148-2018/1	Pastrana, Diana V	(b) (6)	BravoVax Co., Ltd.	14-Dec-21
L-148-2018/1	Schiller, John T		BravoVax Co., Ltd.	14-Dec-21
L-137-2019/0	Bonomi, Carrie A.		Good Therapeutics, Inc.	14-Dec-21
L-137-2019/0	Borgel, Suzanne D.		Good Therapeutics, Inc.	14-Dec-21
L-137-2019/0	Dougherty, Kelly		Good Therapeutics, Inc.	14-Dec-21
L-137-2019/0	Hollingshead, Melinda G.		Good Therapeutics, Inc.	14-Dec-21
L-188-2019/0	Schlom, Jeffrey		Good Therapeutics, Inc	14-Dec-21
L-012-2021/0	Hinrichs, Christian S.		SQZ Biotechnologies Company	14-Dec-21
L-012-2021/0	Rosenberg, Steven A.		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Lu, Yong-Chen		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Pasetto, Anna		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Robbins, Paul F		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Rosenberg, Steven A.		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Tran, Eric		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Wang, Qiong		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Yang, James Chung-Yin		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Yu, Zhiya		SQZ Biotechnologies Company	14-Dec-21
L-013-2021/0	Zheng, Zhili		SQZ Biotechnologies Company	14-Dec-21
L-014-2021/0	Hinrichs, Christian S.		SQZ Biotechnologies Company	14-Dec-21
L-014-2021/0	Rosenberg, Steven A.		SQZ Biotechnologies Company	14-Dec-21
L-202-2021/0	Bonomi, Carrie A.		Good Therapeutics, Inc.	14-Dec-21
L-202-2021/0	Dougherty, Kelly		Good Therapeutics, Inc.	14-Dec-21
L-202-2021/0	Hollingshead, Melinda G.		Good Therapeutics, Inc.	14-Dec-21
L-001-2022/0	Gazdar, (b) (6) Adi		Zymeworks Inc.	14-Dec-21
L-001-2022/0	Johnson, Bruce E		Zymeworks Inc.	14-Dec-21
L-001-2022/0	Kaye, Frederic J		Zymeworks Inc.	14-Dec-21
L-001-2022/0	Khleif, Samir N.		Zymeworks Inc.	14-Dec-21
L-001-2022/0	Minna, John D.		Zymeworks Inc.	14-Dec-21
L-001-2022/0	Oie, (b) (6) Herbert K		Zymeworks Inc.	14-Dec-21
L-001-2022/0	Pass, Harvey I		Zymeworks Inc.	14-Dec-21
L-240-2020/1	Bonomi, Carrie A.		Medytox Inc.	15-Dec-21
L-240-2020/1	Borgel, Suzanne D.		Medytox Inc.	15-Dec-21
L-240-2020/1	Dougherty, Kelly		Medytox Inc.	15-Dec-21
L-240-2020/1	Hollingshead, Melinda G.		Medytox Inc.	15-Dec-21
L-180-2021/0	Esposito, Dominic		Vertex Pharmaceuticals (Europe) Limited	15-Dec-21
L-180-2021/0	Grose, Carissa L.		Vertex Pharmaceuticals (Europe) Limited	15-Dec-21
L-009-2022/0	Gazdar, (b) (6) Adi		Aragen Life Sciences Private Limited	15-Dec-21
L-009-2022/0	Johnson, Bruce E		Aragen Life Sciences Private Limited	15-Dec-21
L-009-2022/0	Kaye, Frederic J		Aragen Life Sciences Private Limited	15-Dec-21
L-009-2022/0	Khleif, Samir N.		Aragen Life Sciences Private Limited	15-Dec-21
L-009-2022/0	Minna, John D.		Aragen Life Sciences Private Limited	15-Dec-21
L-009-2022/0	Oie, (b) (6) Herbert K		Aragen Life Sciences Private Limited	15-Dec-21
L-009-2022/0	Pass, Harvey I		Aragen Life Sciences Private Limited	15-Dec-21
L-068-2018/1	Bonomi, Carrie A.		Dicerna Pharmaceuticals	16-Dec-21
L-068-2018/1	Dougherty, Kelly		Dicerna Pharmaceuticals	16-Dec-21
L-068-2018/1	Hollingshead, Melinda G.		Dicerna Pharmaceuticals	16-Dec-21

L-214-2019/0	Gallo, Robert C.	(b) (4), Cerus Corporation	16-Dec-21
L-214-2019/0	Popovic, Mikulas	(b) (6) Cerus Corporation	16-Dec-21
L-047-2006/2	Chang, Nancy T.	Chembio Diagnostic	17-Dec-21
L-047-2006/2	Crowl, Robert	Chembio Diagnostic	17-Dec-21
L-047-2006/2	Gallo, Robert C.	Chembio Diagnostic	17-Dec-21
L-047-2006/2	(b) (4)	Chembio Diagnostic	17-Dec-21
L-047-2006/2	Reddy, E. Premkumar.	Chembio Diagnostic	17-Dec-21
L-047-2006/2	Shaw, George M	Chembio Diagnostic	17-Dec-21
L-047-2006/2	Wong-Staal (b) (6)	Chembio Diagnostic	17-Dec-21
L-055-2018/1	Keseling, Beverly G	PTC Therapeutics Inc	17-Dec-21
L-055-2018/1	Warfield, Paul	PTC Therapeutics Inc	17-Dec-21
L-043-2021/0	Keseling, Beverly G	PTC Therapeutics GT, Inc.	17-Dec-21
L-043-2021/0	Warfield, Paul	PTC Therapeutics GT, Inc.	17-Dec-21
L-115-2017/1	Aaronson, Stuart A.	VCN Biosciences, S.L.	20-Dec-21
L-115-2017/1	(b) (6) Donald J. Giard	VCN Biosciences, S.L.	20-Dec-21
L-115-2017/1	Parks, Wade P.	VCN Biosciences, S.L.	20-Dec-21
L-030-2022/0	Hinrichs, Christian S.	Precision BioSciences	20-Dec-21
L-030-2022/0	Rosenberg, Steven A.	Precision BioSciences	20-Dec-21
L-030-2022/0	Hinrichs, Christian S.	Precision BioSciences	20-Dec-21
L-030-2022/0	Rosenberg, Steven A.	Precision BioSciences	20-Dec-21
L-030-2022/0	Hinrichs, Christian S.	Precision BioSciences	20-Dec-21
L-030-2022/0	Rosenberg, Steven A.	Precision BioSciences	20-Dec-21
L-071-1993/0	Aaronson, Stuart A.	LIFE TECHNOLOGIES	21-Dec-21
L-071-1993/0	Finch, Paul W.	LIFE TECHNOLOGIES	21-Dec-21
L-071-1993/0	Rubin, Jeffrey S	LIFE TECHNOLOGIES	21-Dec-21
L-049-2000/1	Hathcock, Karen	eBioscience, Inc..	21-Dec-21
L-049-2000/1	Hodes, Richard J	eBioscience, Inc..	21-Dec-21
L-049-2000/1	Laszlo, Gloria	eBioscience, Inc..	21-Dec-21
<i>Note: L-049-2000/1 split between NCI; NIAID</i>			
L-206-2000/0	Aaronson, Stuart A.	LIFE TECHNOLOGIES	21-Dec-21
L-206-2000/0	King, Charles R.	LIFE TECHNOLOGIES	21-Dec-21
L-206-2000/0	Kraus, (b) (6) Matthias	LIFE TECHNOLOGIES	21-Dec-21
L-114-2006/1	Azimi, Nazli	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Dubois, Sigrid	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Goldman, Carolyn	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Kilbourne, Jennifer Mariner	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Lantz, Valerie A	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Waldmann, Thomas A.	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Azimi, Nazli	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Dubois, Sigrid	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Goldman, Carolyn	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Kilbourne, Jennifer Mariner	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Lantz, Valerie A	Affymetrix, Inc.	21-Dec-21
L-114-2006/1	Waldmann, Thomas A.	Affymetrix, Inc.	21-Dec-21
L-004-2007/2	Qasba, Pradman	Life Technologies Corp.	21-Dec-21
L-004-2007/2	Ramakrishnan, Boopathy	Life Technologies Corp.	21-Dec-21

L-317-2017/0	NCI	Lentigen Technology Inc	21-Dec-21	(b) (3) (A), (b) (4), (b) (6)
L-165-2018/0	Baskar, Sivasubramanian	(b) (4), Exbio Praha	21-Dec-21	
L-165-2018/0	Rader, Christoph	(b) (6) Exbio Praha	21-Dec-21	
L-121-2019/0	Gottesman, Michael M.	Axcelead Drug Discovery Partners, Inc	21-Dec-21	
L-121-2019/0	Pastan, Ira H	Axcelead Drug Discovery Partners, Inc	21-Dec-21	
L-121-2019/0	Ueda, Kazumitsu	Axcelead Drug Discovery Partners, Inc	21-Dec-21	
L-084-2020/0	Ise, Tomoko	EXBIO Praha	21-Dec-21	
L-084-2020/0	Nagata, Satoshi	EXBIO Praha	21-Dec-21	
L-084-2020/0	Pastan, Ira H	EXBIO Praha	21-Dec-21	
L-084-2020/0	Xiang, Laiman	EXBIO Praha	21-Dec-21	
L-076-2010/1	(b) (4)	Scancell Ltd	22-Dec-21	
L-076-2010/1	Hwu, Patrick	Scancell Ltd	22-Dec-21	
L-076-2010/1	Kawakami, Yutaka	Scancell Ltd	22-Dec-21	
L-076-2010/1	Lapointe, Rejean	Scancell Ltd	22-Dec-21	
L-076-2010/1	Parkhurst, Maria	Scancell Ltd	22-Dec-21	
L-076-2010/1	Rosenberg, Steven A.	Scancell Ltd	22-Dec-21	
L-076-2010/1	(b) (4)	Scancell Ltd	22-Dec-21	
L-076-2010/1	Wang, Rong-fu	Scancell Ltd	22-Dec-21	
L-319-2014/2	Gottesman, Michael M.	WuXi AppTec (Shanghai) Co., Ltd.	22-Dec-21	
L-319-2014/2	Pastan, Ira H	WuXi AppTec (Shanghai) Co., Ltd.	22-Dec-21	
L-319-2014/2	Ueda, Kazumitsu	WuXi AppTec (Shanghai) Co., Ltd.	22-Dec-21	
L-035-2022/0	Ho, Mitchell	Curie Therapeutics Inc.	22-Dec-21	
L-035-2022/0	Li, Dan	Curie Therapeutics Inc.	22-Dec-21	
L-035-2022/0	St. Croix, Brad D.	Curie Therapeutics Inc.	22-Dec-21	
L-035-2022/0	Wang, Ruixue	Curie Therapeutics Inc.	22-Dec-21	
L-091-2011/0	Chang, Nancy T.	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Fisher, Amanda G.	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Gallo, Robert C.	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Hahn, Beatrice	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	(b) (4)	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Popovic, Mikulas	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Sarnagadharan, Mangalasseril	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Shaw, George M	Quest Diagnostics, Inc.	23-Dec-21	
L-091-2011/0	Wong-Staal (b) (6)	Quest Diagnostics, Inc.	23-Dec-21	
L-048-2015/2	NCI	PDS Biotechnology Corporation	23-Dec-21	
L-048-2015/2	Schlom, Jeffrey	(b) (4), PDS Biotechnology Corporation	23-Dec-21	
L-048-2015/2	Tsang, Kwong-Yok	(b) (6) PDS Biotechnology Corporation	23-Dec-21	
L-259-2017/0	NCI	CRISPR Therapeutics AG	23-Dec-21	
L-273-2017/0	Bonomi, Carrie A.	(b) (4), Kyowa Hakko Kirin Co., Ltd	23-Dec-21	
L-273-2017/0	Borgel, Suzanne D.	(b) (6) Kyowa Hakko Kirin Co., Ltd	23-Dec-21	
L-273-2017/0	Dougherty, Kelly	Kyowa Hakko Kirin Co., Ltd	23-Dec-21	
L-273-2017/0	Hollingshead, Melinda G.	Kyowa Hakko Kirin Co., Ltd	23-Dec-21	
L-325-2017/0	Gao, Wei	Diagnostic BioSystems	23-Dec-21	
L-325-2017/0	Ho, Mitchell	Diagnostic BioSystems	23-Dec-21	
L-325-2017/0	Phung, Yen T.	Diagnostic BioSystems	23-Dec-21	
L-325-2017/0	Zhang, Yifan	Diagnostic BioSystems	23-Dec-21	

L-327-2017/0	Gao, Wei	(b) Diagnostic BioSystems	23-Dec-21
L-327-2017/0	Hassan, Raffit	(4) Diagnostic BioSystems	23-Dec-21
L-327-2017/0	Ho, Mitchell	(b) (6) Diagnostic BioSystems	23-Dec-21
L-327-2017/0	Pastan, Ira H	Diagnostic BioSystems	23-Dec-21
L-327-2017/0	Phung, Yen T.	Diagnostic BioSystems	23-Dec-21
L-327-2017/0	Zhang, Yifan	Diagnostic BioSystems	23-Dec-21
L-035-2020/0	Bonomi, Carrie A.	Celgene Corp	23-Dec-21
L-035-2020/0	Dougherty, Kelly	Celgene Corp	23-Dec-21
L-035-2020/0	Hollingshead, Melinda G.	Celgene Corp	23-Dec-21
L-152-2020/0	Felber, Barbara K.	Cidara Therapeutics, Inc.	23-Dec-21
L-152-2020/0	Pavlakis, George N	Cidara Therapeutics, Inc.	23-Dec-21
L-047-2021/0	Harmon, Stephanie Anne	Canon Medical Systems USA, Inc.	23-Dec-21
L-047-2021/0	Turkbey, Ismail B.	Canon Medical Systems USA, Inc.	23-Dec-21
<i>Note: L-047-2021/0 split between CC; NCI</i>			
L-070-2021/1	Bonomi, Carrie A.	Eisai Co., Ltd.	23-Dec-21
L-070-2021/1	Dougherty, Kelly	Eisai Co., Ltd.	23-Dec-21
L-070-2021/1	Hollingshead, Melinda G.	Eisai Co., Ltd.	23-Dec-21
L-144-2021/0	Isenberg, Jeffrey	Morphiex Biotherapeutics	23-Dec-21
L-144-2021/0	KAUR, SUKHBIR	Morphiex Biotherapeutics	23-Dec-21
L-144-2021/0	Maxhimer, Justin B	Morphiex Biotherapeutics	23-Dec-21
L-144-2021/0	Roberts, David D.	Morphiex Biotherapeutics	23-Dec-21
L-144-2021/0	SOTO-PANTOJA, DAVID	Morphiex Biotherapeutics	23-Dec-21
L-144-2021/0	(b) (4)	Morphiex Biotherapeutics	23-Dec-21
<i>Note: L-144-2021/0 split between NCI; NHLBI</i>			
L-025-2022/0	Berzofsky, Jay A.	PDS Biotechnology Corporation	23-Dec-21
L-025-2022/0	Oh, SangKon	PDS Biotechnology Corporation	23-Dec-21
L-025-2022/0	Pastan, Ira H	PDS Biotechnology Corporation	23-Dec-21
L-025-2022/0	Roberson, Brenda D.	PDS Biotechnology Corporation	23-Dec-21
L-025-2022/0	Terabe, Masaki	PDS Biotechnology Corporation	23-Dec-21
L-025-2022/0	Wood, Lauren V	PDS Biotechnology Corporation	23-Dec-21
L-162-2017/1	Bonomi, Carrie A.	Daiichi Sankyo Co., Ltd.	24-Dec-21
L-162-2017/1	Dougherty, Kelly	Daiichi Sankyo Co., Ltd.	24-Dec-21
L-162-2017/1	Hollingshead, Melinda G.	Daiichi Sankyo Co., Ltd.	24-Dec-21
L-049-2018/1	Bonomi, Carrie A.	BrightPath Biotherapeutics Co., Ltd.	24-Dec-21
L-049-2018/1	Borgel, Suzanne D.	BrightPath Biotherapeutics Co., Ltd.	24-Dec-21
L-049-2018/1	Dougherty, Kelly	BrightPath Biotherapeutics Co., Ltd.	24-Dec-21
L-049-2018/1	Hollingshead, Melinda G.	BrightPath Biotherapeutics Co., Ltd.	24-Dec-21
L-105-2018/1	Bonomi, Carrie A.	Chugai	24-Dec-21
L-105-2018/1	Borgel, Suzanne D.	Chugai	24-Dec-21
L-105-2018/1	Dougherty, Kelly	Chugai	24-Dec-21
L-105-2018/1	Hollingshead, Melinda G.	Chugai	24-Dec-21
L-190-2005/2	Gallo, Robert C.	GeoVax, Inc.	27-Dec-21
L-190-2005/2	(b) (4)	GeoVax, Inc.	27-Dec-21
L-190-2005/2	Popovic, Mikulas	GeoVax, Inc.	27-Dec-21
L-190-2005/2	Sarnagadharan, Mangalasseril	GeoVax, Inc.	27-Dec-21
<i>Note: L-190-2005/2 split between NCI; NIAID</i>			
L-125-2013/0	Gazdar (b) (6) Adi	BioRad	27-Dec-21

L-125-2013/0	Johnson, Bruce E	(b) (4) BioRad	27-Dec-21
L-125-2013/0	Kaye, Frederic J	(b) (6) BioRad	27-Dec-21
L-125-2013/0	Khleif, Samir N.	BioRad	27-Dec-21
L-125-2013/0	Minna, John D.	BioRad	27-Dec-21
L-125-2013/0	Oie, (b) (6) Herbert K	BioRad	27-Dec-21
L-125-2013/0	Pass, Harvey I	BioRad	27-Dec-21
L-238-2019/0	Hanada, Kenichi	T-Cure Bioscience, Inc	27-Dec-21
L-238-2019/0	Wang, Qiong	T-Cure Bioscience, Inc	27-Dec-21
L-238-2019/0	Yang, James Chung-Yin	T-Cure Bioscience, Inc	27-Dec-21
L-104-2020/1	Hinrichs, Christian S.	T-Cure Bioscience, Inc.	27-Dec-21
L-104-2020/1	Stevanovic, Sanja	T-Cure Bioscience, Inc.	27-Dec-21
L-104-2020/1	Hinrichs, Christian S.	T-Cure Bioscience, Inc.	27-Dec-21
L-104-2020/1	Stevanovic, Sanja	T-Cure Bioscience, Inc.	27-Dec-21
L-051-2021/0	Gazdar, (b) (6) Adi	DS Bio Limited	27-Dec-21
L-051-2021/0	Johnson, Bruce E	DS Bio Limited	27-Dec-21
L-051-2021/0	Kaye, Frederic J	DS Bio Limited	27-Dec-21
L-051-2021/0	Khleif, Samir N.	DS Bio Limited	27-Dec-21
L-051-2021/0	Minna, John D.	DS Bio Limited	27-Dec-21
L-051-2021/0	Oie, (b) (6) Herbert K	DS Bio Limited	27-Dec-21
L-051-2021/0	Pass, Harvey I	DS Bio Limited	27-Dec-21
L-052-2021/0	Hinrichs, Christian S.	T-Cure Bioscience, Inc.	27-Dec-21
L-084-2011/3	Gazdar, (b) (6) Adi	Nichirei Biosciences, Inc.	28-Dec-21
L-084-2011/3	Johnson, Bruce E	Nichirei Biosciences, Inc.	28-Dec-21
L-084-2011/3	Kaye, Frederic J	Nichirei Biosciences, Inc.	28-Dec-21
L-084-2011/3	Khleif, Samir N.	Nichirei Biosciences, Inc.	28-Dec-21
L-084-2011/3	Minna, John D.	Nichirei Biosciences, Inc.	28-Dec-21
L-084-2011/3	Oie, (b) (6) Herbert K	Nichirei Biosciences, Inc.	28-Dec-21
L-084-2011/3	Pass, Harvey I	Nichirei Biosciences, Inc.	28-Dec-21
L-201-2020/0	Gao, Wei	Navrogen Inc	28-Dec-21
L-201-2020/0	Hassan, Raffit	Navrogen Inc	28-Dec-21
L-201-2020/0	Ho, Mitchell	Navrogen Inc	28-Dec-21
L-201-2020/0	Pastan, Ira H	Navrogen Inc	28-Dec-21
L-201-2020/0	Phung, Yen T.	Navrogen Inc	28-Dec-21
L-201-2020/0	Zhang, Yifan	Navrogen Inc	28-Dec-21
L-063-2021/0	Gazdar, (b) (6) Adi	Janssen Research & Development, LLC	28-Dec-21
L-063-2021/0	Johnson, Bruce E	Janssen Research & Development, LLC	28-Dec-21
L-063-2021/0	Kaye, Frederic J	Janssen Research & Development, LLC	28-Dec-21
L-063-2021/0	Khleif, Samir N.	Janssen Research & Development, LLC	28-Dec-21
L-063-2021/0	Minna, John D.	Janssen Research & Development, LLC	28-Dec-21
L-063-2021/0	Oie, (b) (6) Herbert K	Janssen Research & Development, LLC	28-Dec-21
L-063-2021/0	Pass, Harvey I	Janssen Research & Development, LLC	28-Dec-21
L-170-2021/0	Copeland, Amy	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Gros, Alena	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Hanada, Kenichi	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Krishna, Sri	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Lowery, Frank	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Robbins, Paul F	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Rosenberg, Steven A.	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Yang, James Chung-Yin	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21
L-170-2021/0	Yoseph, Rami	Fresh Wind Biotechnologies USA, Inc.	28-Dec-21

L-024-1997/2	Kawakami, Yutaka	(b) (4)	BioLegend, Inc.	29-Dec-21
L-024-1997/2	Rosenberg, Steven A.	(b) (6)	BioLegend, Inc.	29-Dec-21
L-010-2008/1	Hathcock, Karen		BioLegend	29-Dec-21
L-010-2008/1	Hodes, Richard J		BioLegend	29-Dec-21
L-010-2008/1	Laszlo, Gloria		BioLegend	29-Dec-21
L-042-2008/1	Azimi, Nazli		BioLegend	29-Dec-21
L-042-2008/1	Dubois, Sigrid		BioLegend	29-Dec-21
L-042-2008/1	Goldman, Carolyn		BioLegend	29-Dec-21
L-042-2008/1	Kilbourne, Jennifer Mariner		BioLegend	29-Dec-21
L-042-2008/1	Lantz, Valerie A		BioLegend	29-Dec-21
L-042-2008/1	Waldmann, Thomas A.		BioLegend	29-Dec-21
L-023-2009/2	Waugh, David		Takeda Pharmaceutical	29-Dec-21
L-136-2009/1	Mason, Llewellyn H.		BioLegend	29-Dec-21
L-136-2009/1	Ortaldo, John R.		BioLegend	29-Dec-21
L-007-2011/2	Onda, Masanori		BioLegend	29-Dec-21
L-007-2011/2	Pastan, Ira H		BioLegend	29-Dec-21
L-037-2011/1	Jelinek, Ivett		BioLegend	29-Dec-21
L-037-2011/1	Segal, David M.		BioLegend	29-Dec-21
L-037-2011/1	Wang, Yan		BioLegend	29-Dec-21
L-070-2012/1	Hathcock, Karen		BioLegend	29-Dec-21
L-070-2012/1	Hodes, Richard J		BioLegend	29-Dec-21
L-070-2012/1	Laszlo, Gloria		BioLegend	29-Dec-21
L-095-2012/0	Baskar, Sivasubramanian		BioLegend	29-Dec-21
L-095-2012/0	Rader, Christoph		BioLegend	29-Dec-21
L-162-2014/1	Gottesman, Michael M.		Pfizer, Inc.	29-Dec-21
L-162-2014/1	Pastan, Ira H		Pfizer, Inc.	29-Dec-21
L-162-2014/1	Ueda, Kazumitsu		Pfizer, Inc.	29-Dec-21
L-200-2014/0	Austin, Faye C.		Becton, Dickinson and Company	29-Dec-21
L-200-2014/0	Colcher, David		Becton, Dickinson and Company	29-Dec-21
L-200-2014/0	Hand, Patricia H.		Becton, Dickinson and Company	29-Dec-21
L-200-2014/0	Nuti, Marianna		Becton, Dickinson and Company	29-Dec-21
L-200-2014/0	Schlom, Jeffrey		Becton, Dickinson and Company	29-Dec-21
L-216-2014/1	Chang, Kai		BioLegend Inc	29-Dec-21
L-216-2014/1	Pastan, Ira H		BioLegend Inc	29-Dec-21
L-216-2014/1	Willingham, Mark C.		BioLegend Inc	29-Dec-21
L-198-2015/0	Ise, Tomoko		BioLegend	29-Dec-21
L-198-2015/0	Nagata, Satoshi		BioLegend	29-Dec-21
L-198-2015/0	Pastan, Ira H		BioLegend	29-Dec-21
L-216-2021/0	Bonomi, Carrie A.		Stellanova Therapeutics, Inc.	29-Dec-21
L-216-2021/0	Dougherty, Kelly		Stellanova Therapeutics, Inc.	29-Dec-21
L-216-2021/0	Hollingshead, Melinda G.		Stellanova Therapeutics, Inc.	29-Dec-21
L-108-2018/1	Esposito, Dominic		StrideBio	30-Dec-21
L-108-2018/1	Grose, Carissa L.		StrideBio	30-Dec-21

L-109-2018/1	(b) (4)	(b) (4)	StrideBio	30-Dec-21	(b) (3) (A), (b) (4), (b) (6)
L-109-2018/1	Esposito, Dominic	(b) (6)	StrideBio	30-Dec-21	
L-109-2018/1	Hopkins, Ralph F.		StrideBio	30-Dec-21	
L-109-2018/1	Roberts, Veronica Ann		StrideBio	30-Dec-21	
L-256-2020/0	Hodge, Deborah		Selecta Biosciences Inc	30-Dec-21	
L-256-2020/0	Young, Howard A.		Selecta Biosciences Inc	30-Dec-21	

NIH Patent Licensing Activities
NCI
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-255-2019/0	Buck, Christopher	(b) (4)	BioE Holdings Inc.	1-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-255-2019/0	Pastrana, Diana V	(b) (6)	BioE Holdings Inc.	1-Jan-22						
L-255-2019/0	RAY, UPASANA		BioE Holdings Inc.	1-Jan-22						
L-138-2020/0	Gazdar, (b) (6) Adi		Zymeworks Inc.	1-Jan-22						
L-138-2020/0	Johnson, Bruce E		Zymeworks Inc.	1-Jan-22						
L-138-2020/0	Kaye, Frederic J		Zymeworks Inc.	1-Jan-22						
L-138-2020/0	Khleif, Samir N.		Zymeworks Inc.	1-Jan-22						
L-138-2020/0	Minna, John D.		Zymeworks Inc.	1-Jan-22						
L-138-2020/0	Oie, (b) (6) Herbert K		Zymeworks Inc.	1-Jan-22						
L-138-2020/0	Pass, Harvey I		Zymeworks Inc.	1-Jan-22						
L-140-2020/1	Bonomi, Carrie A.		Zymeworks Inc.	1-Jan-22						
L-140-2020/1	Borgel, Suzanne D.		Zymeworks Inc.	1-Jan-22						
L-140-2020/1	Dougherty, Kelly		Zymeworks Inc.	1-Jan-22						
L-140-2020/1	Hollingshead, Melinda G.		Zymeworks Inc.	1-Jan-22						
L-049-2021/0	Franchini, Genoveffa		Genezen Laboratories, Inc.	1-Jan-22						
L-049-2021/0	Gallo, Robert C.		Genezen Laboratories, Inc.	1-Jan-22						
L-049-2021/0	Kalyanaraman, Vaniambadi S.		Genezen Laboratories, Inc.	1-Jan-22						
L-049-2021/0	Markham, Phillip D.		Genezen Laboratories, Inc.	1-Jan-22						
L-049-2021/0	Salahuddin, Syed Z.		Genezen Laboratories, Inc.	1-Jan-22						
L-049-2021/0	Wong-Staal (b) (6)		Genezen Laboratories, Inc.	1-Jan-22						
L-205-2021/0	Hinrichs, Christian S.		Zelluna Immunotherapy AS	1-Jan-22						
L-205-2021/0	Stevanovic, Sanja		Zelluna Immunotherapy AS	1-Jan-22						
L-001-2022/0	Gazdar (b) (6) Adi		Zymeworks Inc.	1-Jan-22						
L-001-2022/0	Johnson, Bruce E		Zymeworks Inc.	1-Jan-22						
L-001-2022/0	Kaye, Frederic J		Zymeworks Inc.	1-Jan-22						
L-001-2022/0	Khleif, Samir N.		Zymeworks Inc.	1-Jan-22						
L-001-2022/0	Minna, John D.		Zymeworks Inc.	1-Jan-22						
L-001-2022/0	Oie, (b) (6) Herbert K		Zymeworks Inc.	1-Jan-22						
L-001-2022/0	Pass, Harvey I		Zymeworks Inc.	1-Jan-22						
L-178-2005/1	Chung, Jae Wook		BioGemex Ltd	3-Jan-22						
L-117-2009/2	Aaronson, Stuart A.		Targovax	3-Jan-22						
L-117-2009/2	(b) (6) Donald J. Giard		Targovax	3-Jan-22						
L-117-2009/2	Parks, Wade P.		Targovax	3-Jan-22						
L-015-1984/8	Chang, Nancy T.		Abbott Laboratories	4-Jan-22						
L-015-1984/8	Crowl, Robert		Abbott Laboratories	4-Jan-22						

L-015-1984/8	Fisher, Amanda G.	(b) (4)	Abbott Laboratories	4-Jan-22
L-015-1984/8	Gallo, Robert C.	(b) (6)	Abbott Laboratories	4-Jan-22
L-015-1984/8	Hahn, Beatrice		Abbott Laboratories	4-Jan-22
L-015-1984/8	(b) (4)		Abbott Laboratories	4-Jan-22
L-015-1984/8	Popovic, Mikulas		Abbott Laboratories	4-Jan-22
L-015-1984/8	Reddy, E. Premkumar.		Abbott Laboratories	4-Jan-22
L-015-1984/8	Sarangadharan, Mangalasseril		Abbott Laboratories	4-Jan-22
L-015-1984/8	Shaw, George M		Abbott Laboratories	4-Jan-22
L-015-1984/8	Wong-Staal (b) (6)		Abbott Laboratories	4-Jan-22
L-423-1992/0	Schlom, Jeffrey		Life Technologies Corporation	4-Jan-22
L-001-2006/0	NCI		Henry Jackson Foundation	4-Jan-22
L-205-2016/1	Gazdar (b) (6) Adi	(b) (4)	Relay Therapeutics, Inc	4-Jan-22
L-205-2016/1	Johnson, Bruce E	(b) (6)	Relay Therapeutics, Inc	4-Jan-22
L-205-2016/1	Kaye, Frederic J		Relay Therapeutics, Inc	4-Jan-22
L-205-2016/1	Khleif, Samir N.		Relay Therapeutics, Inc	4-Jan-22
L-205-2016/1	Minna, John D.		Relay Therapeutics, Inc	4-Jan-22
L-205-2016/1	Oie (b) (6) Herbert K		Relay Therapeutics, Inc	4-Jan-22
L-205-2016/1	Pass, Harvey I		Relay Therapeutics, Inc	4-Jan-22
L-148-2017/1	Chatterjee, Deb K		Chimeron Bio Corporation	4-Jan-22
L-148-2017/1	Kaczmarczyk, Stanislaw		Chimeron Bio Corporation	4-Jan-22
L-168-2017/0	Bera, Tapan K		Amgen, Inc.	4-Jan-22
L-168-2017/0	Pastan, Ira H		Amgen, Inc.	4-Jan-22
L-028-2018/1	Choyke, Peter L		Scanmed LLC	4-Jan-22
L-028-2018/1	Greer, Matthew D.		Scanmed LLC	4-Jan-22
L-028-2018/1	Mertan, Francesca		Scanmed LLC	4-Jan-22
L-028-2018/1	Sonalee Gaur, Sonia		Scanmed LLC	4-Jan-22
L-028-2018/1	Turkbey, Ismail B.		Scanmed LLC	4-Jan-22
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>				
L-166-2018/0	Bonomi, Carrie A.		genOway S.A.	4-Jan-22
L-166-2018/0	Borgel, Suzanne D.		genOway S.A.	4-Jan-22
L-166-2018/0	Dougherty, Kelly		genOway S.A.	4-Jan-22
L-166-2018/0	Hollingshead, Melinda G.		genOway S.A.	4-Jan-22
L-089-2020/0	Bonomi, Carrie A.		genOway SA	4-Jan-22
L-089-2020/0	Dougherty, Kelly		genOway SA	4-Jan-22
L-089-2020/0	Hollingshead, Melinda G.		genOway SA	4-Jan-22
L-227-2020/0	Gazdar, (b) (6) Adi		Champions Oncology, Inc.	4-Jan-22
L-227-2020/0	Johnson, Bruce E		Champions Oncology, Inc.	4-Jan-22
L-227-2020/0	Kaye, Frederic J		Champions Oncology, Inc.	4-Jan-22
L-227-2020/0	Khleif, Samir N.		Champions Oncology, Inc.	4-Jan-22
L-227-2020/0	Minna, John D.		Champions Oncology, Inc.	4-Jan-22
L-227-2020/0	Oie, (b) (6) Herbert K		Champions Oncology, Inc.	4-Jan-22
L-227-2020/0	Pass, Harvey I		Champions Oncology, Inc.	4-Jan-22
L-073-2021/0	Figg, William D		AevisBio, Inc	4-Jan-22
<i>Note: L-073-2021/0 split between NCI; NIA</i>				
L-073-2021/0	NCI		AevisBio, Inc	4-Jan-22
<i>Note: L-073-2021/0 split between NCI; NIA</i>				
L-141-2021/0	Gazdar (b) (6) Adi	(b) (4), (b) (6)	Champions Oncology, Inc.	4-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-141-2021/0	Johnson, Bruce E	(b) (4),	Champions Oncology, Inc.	4-Jan-22
L-141-2021/0	Kaye, Frederic J	(b) (6)	Champions Oncology, Inc.	4-Jan-22
L-141-2021/0	Khleif, Samir N.		Champions Oncology, Inc.	4-Jan-22
L-141-2021/0	Minna, John D.		Champions Oncology, Inc.	4-Jan-22
L-141-2021/0	Oie, (b) (6) Herbert K		Champions Oncology, Inc.	4-Jan-22
L-141-2021/0	Pass, Harvey I		Champions Oncology, Inc.	4-Jan-22
L-273-2014/0	Chang, Nancy T.		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Gallo, Robert C.		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Popovic, Mikulas		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Sarngadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Shaw, George M		Grifols Worldwide Operations Ltd.	5-Jan-22
L-273-2014/0	Wong-Staal (b) (6)		Grifols Worldwide Operations Ltd.	5-Jan-22
L-277-2017/0	Aaronson, Stuart A.		Valo Therapeutics Oy	5-Jan-22
L-277-2017/0	(b) (6) Donald J. Giard		Valo Therapeutics Oy	5-Jan-22
L-277-2017/0	Parks, Wade P.		Valo Therapeutics Oy	5-Jan-22
L-274-2018/0	Gros, Alena		Cellular Biomedicine Group, Inc.	5-Jan-22
L-274-2018/0	Rosenberg, Steven A.		Cellular Biomedicine Group, Inc.	5-Jan-22
L-089-2019/0	Gazdar, (b) (6) Adi		Guardant Health, Inc.	5-Jan-22
L-089-2019/0	Johnson, Bruce E		Guardant Health, Inc.	5-Jan-22
L-089-2019/0	Kaye, Frederic J		Guardant Health, Inc.	5-Jan-22
L-089-2019/0	Khleif, Samir N.		Guardant Health, Inc.	5-Jan-22
L-089-2019/0	Minna, John D.		Guardant Health, Inc.	5-Jan-22
L-089-2019/0	Oie, (b) (6) Herbert K		Guardant Health, Inc.	5-Jan-22
L-089-2019/0	Pass, Harvey I		Guardant Health, Inc.	5-Jan-22
L-080-1993/3	Hathcock, Karen		BD Biosciences - BD PharMingen, Inc.	6-Jan-22
L-080-1993/3	Hodes, Richard J		BD Biosciences - BD PharMingen, Inc.	6-Jan-22
L-080-1993/3	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	6-Jan-22
L-187-1995/2	Yoshimura, Teizo		BD BIOSCIENCES	6-Jan-22
L-097-2000/3	Austin, Faye C.		BD Biosciences, PharMingen	6-Jan-22
L-097-2000/3	Colcher, David		BD Biosciences, PharMingen	6-Jan-22
L-097-2000/3	Hand, Patricia H.		BD Biosciences, PharMingen	6-Jan-22
L-097-2000/3	Nuti, Marianna		BD Biosciences, PharMingen	6-Jan-22
L-097-2000/3	Schlom, Jeffrey		BD Biosciences, PharMingen	6-Jan-22
L-100-2012/1	Ise, Tomoko		BD Biosciences	6-Jan-22
L-100-2012/1	Nagata, Satoshi		BD Biosciences	6-Jan-22
L-100-2012/1	Pastan, Ira H		BD Biosciences	6-Jan-22
L-076-2016/0	Azimi, Nazli		BD Biosciences	6-Jan-22
L-076-2016/0	Dubois, Sigrid		BD Biosciences	6-Jan-22
L-076-2016/0	Goldman, Carolyn		BD Biosciences	6-Jan-22
L-076-2016/0	Kilbourne, Jennifer Mariner		BD Biosciences	6-Jan-22
L-076-2016/0	Lantz, Valerie A		BD Biosciences	6-Jan-22
L-076-2016/0	Waldmann, Thomas A.		BD Biosciences	6-Jan-22
L-051-2017/0	Rudloff, Udo		ImmunityBio, Inc.	6-Jan-22
L-154-2017/0	Bonomi, Carrie A.		Agios Pharmaceuticals	6-Jan-22

L-154-2017/0	Borgel, Suzanne D.	(b) (4)	Agios Pharmaceuticals	6-Jan-22	(b) (3) (A), (b) (4), (b) (6)
L-154-2017/0	Dougherty, Kelly	(b) (6)	Agios Pharmaceuticals	6-Jan-22	
L-154-2017/0	Hollingshead, Melinda G.		Agios Pharmaceuticals	6-Jan-22	
L-073-2020/0	Bonomi, Carrie A.		Glenmark Research Center	6-Jan-22	
L-073-2020/0	Borgel, Suzanne D.		Glenmark Research Center	6-Jan-22	
L-073-2020/0	Dougherty, Kelly		Glenmark Research Center	6-Jan-22	
L-073-2020/0	Hollingshead, Melinda G.		Glenmark Research Center	6-Jan-22	
L-148-2020/0	Bonomi, Carrie A.		Samyang Biopharma USA, Inc.	7-Jan-22	
L-148-2020/0	Borgel, Suzanne D.		Samyang Biopharma USA, Inc.	7-Jan-22	
L-148-2020/0	Dougherty, Kelly		Samyang Biopharma USA, Inc.	7-Jan-22	
L-148-2020/0	Hollingshead, Melinda G.		Samyang Biopharma USA, Inc.	7-Jan-22	
L-131-2021/0	Bonomi, Carrie A.		Orion Corporation	7-Jan-22	
L-131-2021/0	Borgel, Suzanne D.		Orion Corporation	7-Jan-22	
L-131-2021/0	Dougherty, Kelly		Orion Corporation	7-Jan-22	
L-131-2021/0	Hollingshead, Melinda G.		Orion Corporation	7-Jan-22	
L-053-2021/0	NCI		GLG Pharma, LLC	8-Jan-22	
L-203-2015/1	Gazdar, (b) (6) Adi	(b) (4)	SOTIO	10-Jan-22	
L-203-2015/1	Johnson, Bruce E	(b) (6)	SOTIO	10-Jan-22	
L-203-2015/1	Kaye, Frederic J		SOTIO	10-Jan-22	
L-203-2015/1	Khleif, Samir N.		SOTIO	10-Jan-22	
L-203-2015/1	Minna, John D.		SOTIO	10-Jan-22	
L-203-2015/1	Oie, (b) (6) Herbert K		SOTIO	10-Jan-22	
L-203-2015/1	Pass, Harvey I		SOTIO	10-Jan-22	
L-189-2016/0	Kirnbauer, Reinhard		HIPRA Scientific	10-Jan-22	
L-189-2016/0	Lowy, Douglas R.		HIPRA Scientific	10-Jan-22	
L-189-2016/0	Roden, Richard B		HIPRA Scientific	10-Jan-22	
L-189-2016/0	Schiller, John T		HIPRA Scientific	10-Jan-22	
L-317-2017/0	Chen, Weizao		Lentigen Technology Inc	10-Jan-22	
L-317-2017/0	Dimitrov, Dimitar S.		Lentigen Technology Inc	10-Jan-22	
L-317-2017/0	Ponraj, Prabakaran		Lentigen Technology Inc	10-Jan-22	
L-161-2018/1	Gazdar, (b) (6) Adi		NEUVOGEN, Inc	10-Jan-22	
L-161-2018/1	Johnson, Bruce E		NEUVOGEN, Inc	10-Jan-22	
L-161-2018/1	Kaye, Frederic J		NEUVOGEN, Inc	10-Jan-22	
L-161-2018/1	Khleif, Samir N.		NEUVOGEN, Inc	10-Jan-22	
L-161-2018/1	Minna, John D.		NEUVOGEN, Inc	10-Jan-22	
L-161-2018/1	Oie, (b) (6) Herbert K		NEUVOGEN, Inc	10-Jan-22	
L-161-2018/1	Pass, Harvey I		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Aaronson, Stuart A.		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	(b) (6) Donald J. Giard		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Gazdar, (b) (6) Adi		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Johnson, Bruce E		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Kaye, Frederic J		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Khleif, Samir N.		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Minna, John D.		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Oie, (b) (6) Herbert K		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Parks, Wade P.		NEUVOGEN, Inc	10-Jan-22	
L-085-2019/1	Pass, Harvey I		NEUVOGEN, Inc	10-Jan-22	
L-208-2021/1	Cafri, Gal		Athenex, Inc.	10-Jan-22	
L-208-2021/1	Deniger, Drew		Athenex, Inc.	10-Jan-22	

L-208-2021/1	Hanada, Kenichi	(b) (4)	Athenex, Inc.	10-Jan-22
L-208-2021/1	Kim, Sanghyun	(b) (6)	Athenex, Inc.	10-Jan-22
L-208-2021/1	Levin, Noam		Athenex, Inc.	10-Jan-22
L-208-2021/1	Lo, Winifred Margaret		Athenex, Inc.	10-Jan-22
L-208-2021/1	Lowery, Frank		Athenex, Inc.	10-Jan-22
L-208-2021/1	Lu, Yong-Chen		Athenex, Inc.	10-Jan-22
L-208-2021/1	Malekzadeh, Parisa		Athenex, Inc.	10-Jan-22
L-208-2021/1	Paria, Biman		Athenex, Inc.	10-Jan-22
L-208-2021/1	Parkhurst, Maria		Athenex, Inc.	10-Jan-22
L-208-2021/1	Pasetto, Anna		Athenex, Inc.	10-Jan-22
L-208-2021/1	Robbins, Paul F		Athenex, Inc.	10-Jan-22
L-208-2021/1	Rosenberg, Steven A.		Athenex, Inc.	10-Jan-22
L-208-2021/1	Yang, James Chung-Yin		Athenex, Inc.	10-Jan-22
L-208-2021/1	Yoseph, Rami		Athenex, Inc.	10-Jan-22
L-208-2021/1	Zacharakis, Nikolaos		Athenex, Inc.	10-Jan-22
L-208-2021/1	Zhao, Chihao		Athenex, Inc.	10-Jan-22
L-158-2017/0	NCI		Mokobio Life Science Group, Inc.	11-Jan-22
<i>Note: L-158-2017/0 split between NCI; NHLBI</i>				
L-158-2017/0	Wang, Xiaohong	(b) (4)	Mokobio Life Science Group, Inc.	11-Jan-22
L-158-2017/0	Xu, Junfen	(b) (6)	Mokobio Life Science Group, Inc.	11-Jan-22
L-158-2017/0	Zheng, Zhi-Min g (Thomas)		Mokobio Life Science Group, Inc.	11-Jan-22
<i>Note: L-158-2017/0 split between NCI; NHLBI</i>				
L-158-2017/0	NCI		Mokobio Life Science Group, Inc.	11-Jan-22
<i>Note: L-158-2017/0 split between NCI; NHLBI</i>				
L-329-2017/1	Gao, Wei	(b) (4)	Abpro	11-Jan-22
L-329-2017/1	Ho, Mitchell	(b) (6)	Abpro	11-Jan-22
L-329-2017/1	Phung, Yen T.		Abpro	11-Jan-22
L-329-2017/1	Zhang, Yifan		Abpro	11-Jan-22
L-101-2020/0	Bonomi, Carrie A.		Carisma Therapeutics Inc.	11-Jan-22
L-101-2020/0	Borgel, Suzanne D.		Carisma Therapeutics Inc.	11-Jan-22
L-101-2020/0	Dougherty, Kelly		Carisma Therapeutics Inc.	11-Jan-22
L-101-2020/0	Hollingshead, Melinda G.		Carisma Therapeutics Inc.	11-Jan-22
L-128-2021/0	Bonomi, Carrie A.		Clovis Oncology, Inc.	11-Jan-22
L-128-2021/0	Borgel, Suzanne D.		Clovis Oncology, Inc.	11-Jan-22
L-128-2021/0	Dougherty, Kelly		Clovis Oncology, Inc.	11-Jan-22
L-128-2021/0	Hollingshead, Melinda G.		Clovis Oncology, Inc.	11-Jan-22
L-197-2017/0	Bonomi, Carrie A.		Seagen Inc.	12-Jan-22
L-197-2017/0	Borgel, Suzanne D.		Seagen Inc.	12-Jan-22
L-197-2017/0	Dougherty, Kelly		Seagen Inc.	12-Jan-22
L-197-2017/0	Hollingshead, Melinda G.		Seagen Inc.	12-Jan-22
L-257-2017/0	Buck, Christopher		Serum Institute of India PVT. LTD.	12-Jan-22
L-257-2017/0	(b) (4)		Serum Institute of India PVT. LTD.	12-Jan-22
L-257-2017/0	Lowy, Douglas R.		Serum Institute of India PVT. LTD.	12-Jan-22
L-257-2017/0	Pastrana, Diana V		Serum Institute of India PVT. LTD.	12-Jan-22
L-257-2017/0	Roden, Richard B		Serum Institute of India PVT. LTD.	12-Jan-22
L-257-2017/0	Schiller, John T		Serum Institute of India PVT. LTD.	12-Jan-22
L-331-2017/1	(b) (4)		stari Oncology Inc	12-Jan-22
L-331-2017/1	Broadt, Trevor L.		stari Oncology Inc	12-Jan-22
L-331-2017/1	Mitra, Guatam (George)		stari Oncology Inc	12-Jan-22
L-331-2017/1	Shaban, Samir H.		stari Oncology Inc	12-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-331-2017/1	Xie, Yueqing	(b) (4)	Istari Oncology Inc	12-Jan-22
L-331-2017/1	Zhu, Jianwei	(b) (6)	Istari Oncology Inc	12-Jan-22
L-146-2019/0	Hinrichs, Christian S.		Adicet Bio	12-Jan-22
L-146-2019/0	Jin, Benjamin Yongzu		Adicet Bio	12-Jan-22
L-136-2020/0	Dudley, Mark		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Fitzgerald, Peter C.		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Gros, Alena		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Lu, Yong-Chen		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Palmer, Douglas		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Restifo, Nicholas P.		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Robbins, Paul F		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Rosenberg, Steven A.		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Tran, Eric		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Wunderlich, John		Intima Bioscience Inc.	12-Jan-22
L-136-2020/0	Zheng, Zhili		Intima Bioscience Inc.	12-Jan-22
L-135-2021/0	Bonomi, Carrie A.		Arcus Biosciences	12-Jan-22
L-135-2021/0	Dougherty, Kelly		Arcus Biosciences	12-Jan-22
L-135-2021/0	Hollingshead, Melinda G.		Arcus Biosciences	12-Jan-22
L-236-2021/0	Gonzalez, Frank J.		Jnana Therapeutics	12-Jan-22
L-236-2021/0	Kim, Jung-Hwan		Jnana Therapeutics	12-Jan-22
L-236-2021/0	Yim, Sun Hee		Jnana Therapeutics	12-Jan-22
L-018-2022/0	Bonomi, Carrie A.		Seagen Inc.	12-Jan-22
L-018-2022/0	Dougherty, Kelly		Seagen Inc.	12-Jan-22
L-018-2022/0	Hollingshead, Melinda G.		Seagen Inc.	12-Jan-22
L-018-2022/0	Bonomi, Carrie A.		Seagen Inc.	12-Jan-22
L-018-2022/0	Dougherty, Kelly		Seagen Inc.	12-Jan-22
L-018-2022/0	Hollingshead, Melinda G.		Seagen Inc.	12-Jan-22
L-018-2022/0	Bonomi, Carrie A.		Seagen Inc.	12-Jan-22
L-018-2022/0	Dougherty, Kelly		Seagen Inc.	12-Jan-22
L-018-2022/0	Hollingshead, Melinda G.		Seagen Inc.	12-Jan-22
L-026-2022/0	Gazdar, (b) (6) Adi		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Johnson, Bruce E		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Kaye, Frederic J		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Khleif, Samir N.		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Minna, John D.		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Oie, (b) (6) Herbert K		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Pass, Harvey I		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Gazdar, (b) (6) Adi		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Johnson, Bruce E		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Kaye, Frederic J		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Khleif, Samir N.		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Minna, John D.		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Oie, (b) (6) Herbert K		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Pass, Harvey I		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Gazdar, (b) (6) Adi		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Johnson, Bruce E		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Kaye, Frederic J		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Khleif, Samir N.		SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Minna, John D.		SK Biopharmaceuticals Co., Ltd.	12-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-026-2022/0	Oie, (b) (6) Herbert K	(b) (6) SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-026-2022/0	Pass, Harvey I	(b) (4) SK Biopharmaceuticals Co., Ltd.	12-Jan-22
L-039-2018/0	Gazdar, (b) (6) Adi	Eurofins Cerep	13-Jan-22
L-039-2018/0	Johnson, Bruce E	Eurofins Cerep	13-Jan-22
L-039-2018/0	Kaye, Frederic J	Eurofins Cerep	13-Jan-22
L-039-2018/0	Khleif, Samir N.	Eurofins Cerep	13-Jan-22
L-039-2018/0	Minna, John D.	Eurofins Cerep	13-Jan-22
L-039-2018/0	Oie, (b) (6) Herbert K	Eurofins Cerep	13-Jan-22
L-039-2018/0	Pass, Harvey I	Eurofins Cerep	13-Jan-22
L-136-2020/0	Dudley, Mark	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Fitzgerald, Peter C.	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Gros, Alena	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Lu, Yong-Chen	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Palmer, Douglas	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Restifo, Nicholas P.	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Robbins, Paul F	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Rosenberg, Steven A.	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Tran, Eric	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Wunderlich, John	Intima Bioscience Inc.	13-Jan-22
L-136-2020/0	Zheng, Zhili	Intima Bioscience Inc.	13-Jan-22
L-260-2020/0	Gazdar, (b) (6) Adi	Circle Pharma	13-Jan-22
L-260-2020/0	Johnson, Bruce E	Circle Pharma	13-Jan-22
L-260-2020/0	Kaye, Frederic J	Circle Pharma	13-Jan-22
L-260-2020/0	Khleif, Samir N.	Circle Pharma	13-Jan-22
L-260-2020/0	Minna, John D.	Circle Pharma	13-Jan-22
L-260-2020/0	Oie, (b) (6) Herbert K	Circle Pharma	13-Jan-22
L-260-2020/0	Pass, Harvey I	Circle Pharma	13-Jan-22
L-120-2021/0	Bonomi, Carrie A.	pH Pharma Inc.	13-Jan-22
L-120-2021/0	Borgel, Suzanne D.	pH Pharma Inc.	13-Jan-22
L-120-2021/0	Dougherty, Kelly	pH Pharma Inc.	13-Jan-22
L-120-2021/0	Hollingshead, Melinda G.	pH Pharma Inc.	13-Jan-22
L-071-2019/1	Dimitrov, Dimiter S.	Atara Biotherapeutics Inc.	14-Jan-22
L-071-2019/1	Feng, Yang	Atara Biotherapeutics Inc.	14-Jan-22
L-071-2019/1	Pastan, Ira H	Atara Biotherapeutics Inc.	14-Jan-22
L-133-2019/1	Aaronson, Stuart A.	DNATRIX, Inc.	14-Jan-22
L-133-2019/1	(b) (6) Donald J. Giard	DNATRIX, Inc.	14-Jan-22
L-133-2019/1	Parks, Wade P.	DNATRIX, Inc.	14-Jan-22
L-063-2020/0	Aplan, Peter D.	Keros Therapeutics, Inc.	14-Jan-22
L-063-2020/0	Lin, Ying-Wei	Keros Therapeutics, Inc.	14-Jan-22
L-063-2020/0	Slape, Christopher I.	Keros Therapeutics, Inc.	14-Jan-22
L-063-2020/0	Zhang, ZhenHua	Keros Therapeutics, Inc.	14-Jan-22
L-217-2021/0	Bonomi, Carrie A.	Sotio Biotech	14-Jan-22
L-217-2021/0	Dougherty, Kelly	Sotio Biotech	14-Jan-22
L-217-2021/0	Hollingshead, Melinda G.	Sotio Biotech	14-Jan-22
L-036-2022/0	Boyd, Michael R.	The Population Council, Inc	14-Jan-22
L-036-2022/0	McMahon, James	The Population Council, Inc	14-Jan-22
L-036-2022/0	Mori, Toshiyuki	The Population Council, Inc	14-Jan-22
L-036-2022/0	O'Keefe, Barry	The Population Council, Inc	14-Jan-22
L-192-2018/0	Bonomi, Carrie A.	iOmx	18-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-192-2018/0	Borgel, Suzanne D.	(b) (6), Omx	18-Jan-22
L-192-2018/0	Dougherty, Kelly	(b) (4) Omx	18-Jan-22
L-192-2018/0	Hollingshead, Melinda G.	Omx	18-Jan-22
L-045-2019/3	Bonomi, Carrie A.	Alligator Bioscience AB	18-Jan-22
L-045-2019/3	Borgel, Suzanne D.	Alligator Bioscience AB	18-Jan-22
L-045-2019/3	Dougherty, Kelly	Alligator Bioscience AB	18-Jan-22
L-045-2019/3	Hollingshead, Melinda G.	Alligator Bioscience AB	18-Jan-22
L-045-2019/3	Schlom, Jeffrey	Alligator Bioscience AB	18-Jan-22
L-241-2019/0	Buck, Christopher	Pomona Ricerca SRL	18-Jan-22
L-241-2019/0	Pastrana, Diana V	Pomona Ricerca SRL	18-Jan-22
L-241-2019/0	Schiller, John T	Pomona Ricerca SRL	18-Jan-22
L-201-2020/0	NCI	Navrogen Inc	18-Jan-22
L-149-2018/2	Esposito, Dominic	(b) (6), Merck Sharp & Dohme Corp.	19-Jan-22
L-149-2018/2	Gillette, William K.	(b) (4), Merck Sharp & Dohme Corp.	19-Jan-22
L-149-2018/2	Grose, Carissa L.	Merck Sharp & Dohme Corp.	19-Jan-22
L-154-2018/0	Caplen, Natasha	ERYtech Pharma	19-Jan-22
L-154-2018/0	Lorenzi, Philipp	ERYtech Pharma	19-Jan-22
L-154-2018/0	Weinstein, John N.	ERYtech Pharma	19-Jan-22
L-158-2018/2	(b) (4)	Merck Sharp & Dohme Corp.	19-Jan-22
L-158-2018/2	Esposito, Dominic	Merck Sharp & Dohme Corp.	19-Jan-22
L-158-2018/2	Hopkins, Ralph F.	Merck Sharp & Dohme Corp.	19-Jan-22
L-158-2018/2	Roberts, Veronica Ann	Merck Sharp & Dohme Corp.	19-Jan-22
L-026-2020/0	Bonomi, Carrie A.	manis Life Sciences, LLC	19-Jan-22
L-026-2020/0	Borgel, Suzanne D.	manis Life Sciences, LLC	19-Jan-22
L-026-2020/0	Dougherty, Kelly	manis Life Sciences, LLC	19-Jan-22
L-026-2020/0	Hollingshead, Melinda G.	manis Life Sciences, LLC	19-Jan-22
L-056-2021/0	Bonomi, Carrie A.	Merus N.V.	19-Jan-22
L-056-2021/0	Borgel, Suzanne D.	Merus N.V.	19-Jan-22
L-056-2021/0	Dougherty, Kelly	Merus N.V.	19-Jan-22
L-056-2021/0	Hollingshead, Melinda G.	Merus N.V.	19-Jan-22
L-104-2021/0	Franchini, Genoveffa	The Discovery Labs	19-Jan-22
L-104-2021/0	Gallo, Robert C.	The Discovery Labs	19-Jan-22
L-104-2021/0	Kalyanaraman, Vaniambadi S.	The Discovery Labs	19-Jan-22
L-104-2021/0	Markham, Phillip D.	The Discovery Labs	19-Jan-22
L-104-2021/0	Salahuddin, Syed Z.	The Discovery Labs	19-Jan-22
L-104-2021/0	Wong-Staal (b) (6)	The Discovery Labs	19-Jan-22
L-050-2022/0	Gazdar, (b) (6) Adi	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Johnson, Bruce E	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Kaye, Frederic J	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Khleif, Samir N.	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Minna, John D.	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Oie, (b) (6) Herbert K	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Pass, Harvey I	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Gazdar, (b) (6) Adi	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Johnson, Bruce E	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Kaye, Frederic J	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Khleif, Samir N.	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Minna, John D.	SK Biopharmaceuticals Co., Ltd.	19-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-050-2022/0	Oie, (b) (6) Herbert K	(b) (6) SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Pass, Harvey I	(b) (4) SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Gazdar, (b) (6) Adi	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Johnson, Bruce E	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Kaye, Frederic J	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Khleif, Samir N.	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Minna, John D.	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Oie, (b) (6) Herbert K	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-050-2022/0	Pass, Harvey I	SK Biopharmaceuticals Co., Ltd.	19-Jan-22
L-066-2009/0	Chang, Nancy T.	Becton Dickinson	20-Jan-22
L-066-2009/0	Fisher, Amanda G.	Becton Dickinson	20-Jan-22
L-066-2009/0	Franchini, Genoveffa	Becton Dickinson	20-Jan-22
L-066-2009/0	Gallo, Robert C.	Becton Dickinson	20-Jan-22
L-066-2009/0	Gartner, Suzanne	Becton Dickinson	20-Jan-22
L-066-2009/0	Hahn, Beatrice	Becton Dickinson	20-Jan-22
L-066-2009/0	(b) (4)	Becton Dickinson	20-Jan-22
L-066-2009/0	Lori, Franco C.	Becton Dickinson	20-Jan-22
L-066-2009/0	Markham, Phillip D.	Becton Dickinson	20-Jan-22
L-066-2009/0	Popovic, Mikulas	Becton Dickinson	20-Jan-22
L-066-2009/0	Reitz, Jr., Marvin S.	Becton Dickinson	20-Jan-22
L-066-2009/0	Sarnagadharan, Mangalasseril	Becton Dickinson	20-Jan-22
L-066-2009/0	Shaw, George M	Becton Dickinson	20-Jan-22
L-066-2009/0	Wong-Staal (b) (6)	Becton Dickinson	20-Jan-22
L-100-2018/1	Bonomi, Carrie A.	Codiak Biosciences, Inc.	20-Jan-22
L-100-2018/1	Borgel, Suzanne D.	Codiak Biosciences, Inc.	20-Jan-22
L-100-2018/1	Dougherty, Kelly	Codiak Biosciences, Inc.	20-Jan-22
L-100-2018/1	Hollingshead, Melinda G.	Codiak Biosciences, Inc.	20-Jan-22
L-240-2019/0	Bonomi, Carrie A.	Boehringer Ingelheim RCV GmbH & Co KG	20-Jan-22
L-240-2019/0	Dougherty, Kelly	Boehringer Ingelheim RCV GmbH & Co KG	20-Jan-22
L-240-2019/0	Hollingshead, Melinda G.	Boehringer Ingelheim RCV GmbH & Co KG	20-Jan-22
L-075-2020/0	Acquavella, Nicolas	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Hanada, Kenichi	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Islam, S M Rafiqul	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Restifo, Nicholas P.	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Rosenberg, Steven A.	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Tamaoki, Naritaka	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Topalian, Suzanne L.	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Vizcardo Sakoda, Raul Eduardo	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Yang, James Chung-Yin	Lyell Immunopharma, Inc.	20-Jan-22
L-075-2020/0	Yu, Zhiya	Lyell Immunopharma, Inc.	20-Jan-22
L-061-2021/0	Bonomi, Carrie A.	Amunix Pharmaceuticals, Inc.	20-Jan-22
L-061-2021/0	Borgel, Suzanne D.	Amunix Pharmaceuticals, Inc.	20-Jan-22
L-061-2021/0	Dougherty, Kelly	Amunix Pharmaceuticals, Inc.	20-Jan-22
L-061-2021/0	Hollingshead, Melinda G.	Amunix Pharmaceuticals, Inc.	20-Jan-22
L-065-2021/1	Eil, Robert Langland	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Gattinoni, Luca	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Good, Meghan	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Islam, S M Rafiqul	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Kishton, Rigel Joseph	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Klemen, Nicholas Donald	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Maeda, Takuya	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Patel, Shashankkumar	Lyell Immunopharma, Inc.	20-Jan-22

L-065-2021/1	Restifo, Nicholas P.	(b) (6)	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Tamaoki, Naritaka	(b) (4)	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Vizcardo Sakoda, Raul Eduardo		Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Vodnala, Suman Kumar		Lyell Immunopharma, Inc.	20-Jan-22
<i>Note: L-065-2021/1 split between NCI; NIAID</i>				
L-146-2021/0	Bonomi, Carrie A.		Pharmacology Discovery Services Taiwan,	20-Jan-22
L-146-2021/0	Borgel, Suzanne D.		Pharmacology Discovery Services Taiwan,	20-Jan-22
L-146-2021/0	Dougherty, Kelly		Pharmacology Discovery Services Taiwan,	20-Jan-22
L-146-2021/0	Hollingshead, Melinda G.		Pharmacology Discovery Services Taiwan,	20-Jan-22
L-215-2021/0	Gazdar, (b) (6) Adi		Aragen Life Sciences Private Limited	20-Jan-22
L-215-2021/0	Johnson, Bruce E		Aragen Life Sciences Private Limited	20-Jan-22
L-215-2021/0	Kaye, Frederic J		Aragen Life Sciences Private Limited	20-Jan-22
L-215-2021/0	Khleif, Samir N.		Aragen Life Sciences Private Limited	20-Jan-22
L-215-2021/0	Minna, John D.		Aragen Life Sciences Private Limited	20-Jan-22
L-215-2021/0	Oie (b) (6) Herbert K		Aragen Life Sciences Private Limited	20-Jan-22
L-215-2021/0	Pass, Harvey I		Aragen Life Sciences Private Limited	20-Jan-22
L-218-2021/0	Cowan, Kenneth H.		Elevation Oncology	20-Jan-22
L-036-2022/0	Boyd, Michael R.		The Population Council, Inc	20-Jan-22
L-036-2022/0	McMahon, James		The Population Council, Inc	20-Jan-22
L-036-2022/0	Mori, Toshiyuki		The Population Council, Inc	20-Jan-22
L-036-2022/0	O'Keefe, Barry		The Population Council, Inc	20-Jan-22
L-036-2022/0	NCI		The Population Council, Inc	20-Jan-22
L-158-2017/0	Wang, Xiaohong	(b) (6)	Mokobio Life Science Group, Inc.	21-Jan-22
L-158-2017/0	Xu, Junfen	(b) (4)	Mokobio Life Science Group, Inc.	21-Jan-22
L-158-2017/0	Zheng, Zhi-Min g (Thomas)		Mokobio Life Science Group, Inc.	21-Jan-22
<i>Note: L-158-2017/0 split between NCI; NHLBI</i>				
L-081-2018/0	(b) (4)		PathoVax LLV	21-Jan-22
L-081-2018/0	Lowy, Douglas R.		PathoVax LLV	21-Jan-22
L-081-2018/0	Pastrana, Diana V		PathoVax LLV	21-Jan-22
L-081-2018/0	Schiller, John T		PathoVax LLV	21-Jan-22
L-190-2019/5	Cafri, Gal		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Deniger, Drew		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Feldman, Steven A		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Fitzgerald, Peter C.		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Hanada, Kenichi		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Kim, Sanghyun		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Levin, Noam		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Lo, Winifred Margaret		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Lowery, Frank		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Lu, Yong-Chen		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Malekzadeh, Parisa		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Paria, Biman		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Parkhurst, Maria		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Pasetto, Anna		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Robbins, Paul F		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Rosenberg, Steven A.		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Tran, Eric		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Wang, Qiong		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Yang, James Chung-Yin		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Yoseph, Rami		ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Yu, Zhiya		ZioPharm Oncology, Inc.	21-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-190-2019/5	Zacharakis, Nikolaos	(b) (6) ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Zhao, Chihao	(b) (4) ZioPharm Oncology, Inc.	21-Jan-22
L-190-2019/5	Zheng, Zhili	ZioPharm Oncology, Inc.	21-Jan-22
L-001-2021/0	Gazdar, (b) (6) Adi	AstraZeneca Limited UK	21-Jan-22
L-001-2021/0	Johnson, Bruce E	AstraZeneca Limited UK	21-Jan-22
L-001-2021/0	Kaye, Frederic J	AstraZeneca Limited UK	21-Jan-22
L-001-2021/0	Khleif, Samir N.	AstraZeneca Limited UK	21-Jan-22
L-001-2021/0	Minna, John D.	AstraZeneca Limited UK	21-Jan-22
L-001-2021/0	Oie, (b) (6) Herbert K	AstraZeneca Limited UK	21-Jan-22
L-001-2021/0	Pass, Harvey I	AstraZeneca Limited UK	21-Jan-22
L-027-2022/0	Chen, Xin	Enosi Life Sciences Corp.	21-Jan-22
L-027-2022/0	Dimitrov, Dimitar S.	Enosi Life Sciences Corp.	21-Jan-22
L-027-2022/0	Oppenheim, Joost J	Enosi Life Sciences Corp.	21-Jan-22
L-027-2022/0	Yang, De	Enosi Life Sciences Corp.	21-Jan-22
L-027-2022/0	Zhu, Zhongyu	Enosi Life Sciences Corp.	21-Jan-22
L-011-2006/0	Barry, Todd	Dako Denmark A/S	24-Jan-22
L-011-2006/0	Rosenwald, Andreas	Dako Denmark A/S	24-Jan-22
L-011-2006/0	Staudt, Louis M	Dako Denmark A/S	24-Jan-22
L-011-2006/0	Wiestner, Adrian	Dako Denmark A/S	24-Jan-22
L-011-2006/0	Wilson, Wyndham H.	Dako Denmark A/S	24-Jan-22
L-072-2020/0	Ho, Mitchell	Janssen Pharmaceutica, N.V.	24-Jan-22
L-072-2020/0	Kim, Heungnam	Janssen Pharmaceutica, N.V.	24-Jan-22
L-072-2020/0	Pastan, Ira H	Janssen Pharmaceutica, N.V.	24-Jan-22
L-116-2021/0	Bonomi, Carrie A.	Agenus, Inc.	24-Jan-22
L-116-2021/0	Dougherty, Kelly	Agenus, Inc.	24-Jan-22
L-116-2021/0	Hollingshead, Melinda G.	Agenus, Inc.	24-Jan-22
L-063-2016/2	Gazdar, (b) (6) Adi	GlaxoSmithKline	25-Jan-22
L-063-2016/2	Johnson, Bruce E	GlaxoSmithKline	25-Jan-22
L-063-2016/2	Kaye, Frederic J	GlaxoSmithKline	25-Jan-22
L-063-2016/2	Khleif, Samir N.	GlaxoSmithKline	25-Jan-22
L-063-2016/2	Minna, John D.	GlaxoSmithKline	25-Jan-22
L-063-2016/2	Oie, (b) (6) Herbert K	GlaxoSmithKline	25-Jan-22
L-063-2016/2	Pass, Harvey I	GlaxoSmithKline	25-Jan-22
L-308-2017/0	NCI	Rapa Therapeutics LLC	25-Jan-22
L-167-2020/0	Bonomi, Carrie A.	(b) (6) GlaxoSmithKline LLC	25-Jan-22
L-167-2020/0	Borgel, Suzanne D.	(b) (4) GlaxoSmithKline LLC	25-Jan-22
L-167-2020/0	Dougherty, Kelly	GlaxoSmithKline LLC	25-Jan-22
L-167-2020/0	Hollingshead, Melinda G.	GlaxoSmithKline LLC	25-Jan-22
L-288-2019/0	Bonomi, Carrie A.	Merck Sharp & Dohme Corp.	26-Jan-22
L-288-2019/0	Dougherty, Kelly	Merck Sharp & Dohme Corp.	26-Jan-22
L-288-2019/0	Hollingshead, Melinda G.	Merck Sharp & Dohme Corp.	26-Jan-22
L-099-2020/1	Rosenberg, Steven A.	Kite Pharma	26-Jan-22
L-165-2020/0	Gazdar, (b) (6) Adi	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-165-2020/0	Johnson, Bruce E	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-165-2020/0	Kaye, Frederic J	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-165-2020/0	Khleif, Samir N.	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-165-2020/0	Minna, John D.	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-165-2020/0	Oie, (b) (6) Herbert K	Light Chain Bioscience-Novimmune SA	26-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-165-2020/0	Pass, Harvey I	(b) (6), Light Chain Bioscience-Novimmune SA	26-Jan-22
L-180-2020/0	Schlom, Jeffrey	(b) (4) Merck Sharp & Dohme Corp	26-Jan-22
L-241-2020/0	Bonomi, Carrie A.	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-241-2020/0	Borgel, Suzanne D.	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-241-2020/0	Dougherty, Kelly	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-241-2020/0	Hollingshead, Melinda G.	Light Chain Bioscience-Novimmune SA	26-Jan-22
L-064-2011/0	Barry, Todd	Eptiomics Inc	27-Jan-22
L-064-2011/0	Rosenwald, Andreas	Eptiomics Inc	27-Jan-22
L-064-2011/0	Staudt, Louis M	Eptiomics Inc	27-Jan-22
L-064-2011/0	Wiestner, Adrian	Eptiomics Inc	27-Jan-22
L-064-2011/0	Wilson, Wyndham H.	Eptiomics Inc	27-Jan-22
L-126-2012/0	Austin, Faye C.	Leica Microsystems	27-Jan-22
L-126-2012/0	Colcher, David	Leica Microsystems	27-Jan-22
L-126-2012/0	Hand, Patricia H.	Leica Microsystems	27-Jan-22
L-126-2012/0	Nuti, Marianna	Leica Microsystems	27-Jan-22
L-126-2012/0	Schlom, Jeffrey	Leica Microsystems	27-Jan-22
L-347-2014/0	Muchmore, Brian P.	Abcam, plc	27-Jan-22
L-347-2014/0	O'Brien, Thomas R	Abcam, plc	27-Jan-22
L-347-2014/0	Porter-Gill, Patricia A.	Abcam, plc	27-Jan-22
L-347-2014/0	Prokunina-Olsson, Ludmila	Abcam, plc	27-Jan-22
<i>Note: L-347-2014/0 split between FDA; NCI</i>			
L-201-2017/0	Gazdar, (b) (6) Adi	Leica Biosystems Newcastle Ltd	27-Jan-22
L-201-2017/0	Johnson, Bruce E	Leica Biosystems Newcastle Ltd	27-Jan-22
L-201-2017/0	Kaye, Frederic J	Leica Biosystems Newcastle Ltd	27-Jan-22
L-201-2017/0	Khleif, Samir N.	Leica Biosystems Newcastle Ltd	27-Jan-22
L-201-2017/0	Minna, John D.	Leica Biosystems Newcastle Ltd	27-Jan-22
L-201-2017/0	Oie (b) (6) Herbert K	Leica Biosystems Newcastle Ltd	27-Jan-22
L-201-2017/0	Pass, Harvey I	Leica Biosystems Newcastle Ltd	27-Jan-22
L-333-2017/0	Bonomi, Carrie A.	Glenmark Pharmaceuticals, S.A.	27-Jan-22
L-333-2017/0	Borgel, Suzanne D.	Glenmark Pharmaceuticals, S.A.	27-Jan-22
L-333-2017/0	Dougherty, Kelly	Glenmark Pharmaceuticals, S.A.	27-Jan-22
L-333-2017/0	Hollingshead, Melinda G.	Glenmark Pharmaceuticals, S.A.	27-Jan-22
L-128-2018/1	Bonomi, Carrie A.	Xencor, Inc.	27-Jan-22
L-128-2018/1	Borgel, Suzanne D.	Xencor, Inc.	27-Jan-22
L-128-2018/1	Dougherty, Kelly	Xencor, Inc.	27-Jan-22
L-128-2018/1	Hollingshead, Melinda G.	Xencor, Inc.	27-Jan-22
L-232-2019/0	Palena, Claudia	Abcam plc	27-Jan-22
L-232-2019/0	Schlom, Jeffrey	Abcam plc	27-Jan-22
L-140-2021/0	Bonomi, Carrie A.	TXINNO Bioscience Inc	27-Jan-22
L-140-2021/0	Borgel, Suzanne D.	TXINNO Bioscience Inc	27-Jan-22
L-140-2021/0	Dougherty, Kelly	TXINNO Bioscience Inc	27-Jan-22
L-140-2021/0	Hollingshead, Melinda G.	TXINNO Bioscience Inc	27-Jan-22
L-284-2017/0	Bonomi, Carrie A.	Merck Sharp & Dohme Corp.	28-Jan-22
L-284-2017/0	Borgel, Suzanne D.	Merck Sharp & Dohme Corp.	28-Jan-22
L-284-2017/0	Dougherty, Kelly	Merck Sharp & Dohme Corp.	28-Jan-22
L-284-2017/0	Hollingshead, Melinda G.	Merck Sharp & Dohme Corp.	28-Jan-22
L-038-2019/0	Bonomi, Carrie A.	Boehringer Ingelheim International GmbH	28-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-038-2019/0	Borgel, Suzanne D.	(b) (6)	Boehringer Ingelheim International GmbH	28-Jan-22
L-038-2019/0	Dougherty, Kelly	(b) (4)	Boehringer Ingelheim International GmbH	28-Jan-22
L-038-2019/0	Hollingshead, Melinda G.		Boehringer Ingelheim International GmbH	28-Jan-22
L-239-2020/0	Alewine, Christine		Merck Research Laboratories	28-Jan-22
L-239-2020/0	Collins, Norman Keith		Merck Research Laboratories	28-Jan-22
L-239-2020/0	Guerin, Theresa		Merck Research Laboratories	28-Jan-22
L-239-2020/0	Kozlov, Serguei		Merck Research Laboratories	28-Jan-22
L-239-2020/0	O'Sullivan, Theresa		Merck Research Laboratories	28-Jan-22
L-239-2020/0	Schlomer, Jerome J		Merck Research Laboratories	28-Jan-22
L-239-2020/0	Zhang, Xianyu		Merck Research Laboratories	28-Jan-22
L-019-2022/0	Kouprina, Natalay Y		Replay Holdings, LLC	28-Jan-22
L-019-2022/0	Larionov, Vladimir L		Replay Holdings, LLC	28-Jan-22
L-019-2022/0	Noskov, Vladimir		Replay Holdings, LLC	28-Jan-22
L-061-2022/0	NCI		Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Dimitrov, Dimitar S.	(b) (6)	Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Fry, Terry	(b) (4)	Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Haso, Waleed		Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Mackall, Crystal L		Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Orentas, Rimas J.		Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Pastan, Ira H		Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Qin, Haiying		Sana Biotechnology, Inc.	28-Jan-22
L-061-2022/0	Xiao, Xiaodong		Sana Biotechnology, Inc.	28-Jan-22
L-166-2002/2	Schlom, Jeffrey		Biocare Medical LLC	31-Jan-22
L-242-2002/2	Kawakami, Yutaka		Biocare Medical, LLC	31-Jan-22
L-047-2006/2	Chang, Nancy T.		Chembio Diagnostic	31-Jan-22
L-047-2006/2	Crowl, Robert		Chembio Diagnostic	31-Jan-22
L-047-2006/2	Gallo, Robert C.		Chembio Diagnostic	31-Jan-22
L-047-2006/2	(b) (4)		Chembio Diagnostic	31-Jan-22
L-047-2006/2	Reddy, E. Premkumar.		Chembio Diagnostic	31-Jan-22
L-047-2006/2	Shaw, George M		Chembio Diagnostic	31-Jan-22
L-047-2006/2	Wong-Staal (b) (6)		Chembio Diagnostic	31-Jan-22
L-135-2010/0	Barry, Todd		Laboratory Corporation of America	31-Jan-22
L-135-2010/0	Rosenwald, Andreas		Laboratory Corporation of America	31-Jan-22
L-135-2010/0	Staudt, Louis M		Laboratory Corporation of America	31-Jan-22
L-135-2010/0	Wiestner, Adrian		Laboratory Corporation of America	31-Jan-22
L-135-2010/0	Wilson, Wyndham H.		Laboratory Corporation of America	31-Jan-22
L-250-2017/0	Bonomi, Carrie A.		Aragen Bioscience, Inc.	31-Jan-22
L-250-2017/0	Borgel, Suzanne D.		Aragen Bioscience, Inc.	31-Jan-22
L-250-2017/0	Dougherty, Kelly		Aragen Bioscience, Inc.	31-Jan-22
L-250-2017/0	Hollingshead, Melinda G.		Aragen Bioscience, Inc.	31-Jan-22
L-106-2019/0	Bonomi, Carrie A.		Dracen Pharmaceuticals, Inc.	31-Jan-22
L-106-2019/0	Borgel, Suzanne D.		Dracen Pharmaceuticals, Inc.	31-Jan-22
L-106-2019/0	Dougherty, Kelly		Dracen Pharmaceuticals, Inc.	31-Jan-22
L-106-2019/0	Hollingshead, Melinda G.		Dracen Pharmaceuticals, Inc.	31-Jan-22
L-082-2020/0	Abrams, Scott I		Compass Therapeutics LLC	31-Jan-22
L-082-2020/0	Schlom, Jeffrey		Compass Therapeutics LLC	31-Jan-22
L-129-2021/0	Bonomi, Carrie A.		Crown Bioscience Inc.	31-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-129-2021/0	Borgel, Suzanne D.	(b) (6)	Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Buck, Christopher	(b) (4)	Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Dougherty, Kelly		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Gazdar, Estate of Adi		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Hamilton, Thomas C		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Hollingshead, Melinda G.		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Johnson, Bruce E		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Kaye, Frederic J		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Khleif, Samir N.		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Minna, John D.		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Oie, (b) (6) Herbert K		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Ozols, Robert F		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Pass, Harvey I		Crown Bioscience Inc.	31-Jan-22
L-129-2021/0	Schiller, John T		Crown Bioscience Inc.	31-Jan-22

(b) (3) (A), (b) (4), (b) (6)

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License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-160-2010/0	Jelinek, Ivett	(b) (6)	Bio-Rad AbD Serotec Limited	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-160-2010/0	Segal, David M.	(b) (4)	Bio-Rad AbD Serotec Limited	1-Feb-22						
L-160-2010/0	Wang, Yan		Bio-Rad AbD Serotec Limited	1-Feb-22						
L-279-2017/1	Bonomi, Carrie A.		Oncodesign Biotechnology	1-Feb-22						
L-279-2017/1	Borgel, Suzanne D.		Oncodesign Biotechnology	1-Feb-22						
L-279-2017/1	Dougherty, Kelly		Oncodesign Biotechnology	1-Feb-22						
L-279-2017/1	Hollingshead, Melinda G.		Oncodesign Biotechnology	1-Feb-22						
L-052-2018/1	Gros, Alena		MedGene Therapeutics, Inc.	1-Feb-22						
L-238-2018/0	Bonomi, Carrie A.		Vividion Therapeutics, Inc.	1-Feb-22						
L-238-2018/0	Borgel, Suzanne D.		Vividion Therapeutics, Inc.	1-Feb-22						
L-238-2018/0	Dougherty, Kelly		Vividion Therapeutics, Inc.	1-Feb-22						
L-238-2018/0	Hollingshead, Melinda G.		Vividion Therapeutics, Inc.	1-Feb-22						
L-094-2020/1	Morgan, Richard A.		Innovative Cellular Therapeutics	1-Feb-22						
L-094-2020/1	Restifo, Nicholas P.		Innovative Cellular Therapeutics	1-Feb-22						
L-094-2020/1	Zhang, Ling		Innovative Cellular Therapeutics	1-Feb-22						
L-094-2020/1	NCI		Innovative Cellular Therapeutics	1-Feb-22						
L-154-2021/0	Gazdar, (b) (6) Adi	(b) (6)	Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-154-2021/0	Johnson, Bruce E	(b) (4)	Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-154-2021/0	Kaye, Frederic J		Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-154-2021/0	Khleif, Samir N.		Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-154-2021/0	Minna, John D.		Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-154-2021/0	Oie, (b) (6) Herbert K		Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-154-2021/0	Pass, Harvey I		Sun Pharma Advanced Research Company Ltd	1-Feb-22						
L-239-2021/0	Bonomi, Carrie A.		Idorsia Pharmaceuticals Ltd	1-Feb-22						
L-239-2021/0	Borgel, Suzanne D.		Idorsia Pharmaceuticals Ltd	1-Feb-22						
L-239-2021/0	Dougherty, Kelly		Idorsia Pharmaceuticals Ltd	1-Feb-22						
L-239-2021/0	Hollingshead, Melinda G.		Idorsia Pharmaceuticals Ltd	1-Feb-22						
L-045-2022/0	Hinrichs, Christian S.		Zelluna Immunotherapy AS	2-Feb-22						

L-089-2007/0	Emmert-Buck, Michael R.	(b) (6)	Avant Diagnostics, Inc.	3-Feb-22
L-089-2007/0	Liotta, Lance	(b) (4)	Avant Diagnostics, Inc.	3-Feb-22
L-089-2007/0	Mehta, Arpita I		Avant Diagnostics, Inc.	3-Feb-22
L-089-2007/0	Simone, Nicole L		Avant Diagnostics, Inc.	3-Feb-22
<i>Note: L-089-2007/0 split between FDA; NCI</i>				
L-153-2010/0	Greiner, John W.		Arko Laboratories LTD	3-Feb-22
L-153-2010/0	Schlom, Jeffrey		Arko Laboratories LTD	3-Feb-22
L-153-2010/0	Zaharoff, David		Arko Laboratories LTD	3-Feb-22
L-063-2011/0	Aaronson, Stuart A.		Eptiomcs Inc	3-Feb-22
L-063-2011/0	King, Charles R.		Eptiomcs Inc	3-Feb-22
L-063-2011/0	Kraus, (b) (6) Matthias		Eptiomcs Inc	3-Feb-22
L-176-2019/0	Bonomi, Carrie A.		Pionyr Immunotherapeutics, Inc	3-Feb-22
L-176-2019/0	Borgel, Suzanne D.		Pionyr Immunotherapeutics, Inc	3-Feb-22
L-176-2019/0	Dougherty, Kelly		Pionyr Immunotherapeutics, Inc	3-Feb-22
L-176-2019/0	Hollingshead, Melinda G.		Pionyr Immunotherapeutics, Inc	3-Feb-22
L-011-2021/0	Bonomi, Carrie A.		Pharma Mar, S.A.	3-Feb-22
L-011-2021/0	Dougherty, Kelly		Pharma Mar, S.A.	3-Feb-22
L-011-2021/0	Hollingshead, Melinda G.		Pharma Mar, S.A.	3-Feb-22
L-093-2021/0	Bonomi, Carrie A.		C4 Therapeutics, Inc	3-Feb-22
L-093-2021/0	Borgel, Suzanne D.		C4 Therapeutics, Inc	3-Feb-22
L-093-2021/0	Dougherty, Kelly		C4 Therapeutics, Inc	3-Feb-22
L-093-2021/0	Hollingshead, Melinda G.		C4 Therapeutics, Inc	3-Feb-22
L-045-2022/0	Hinrichs, Christian S.		Zelluna Immunotherapy AS	3-Feb-22
L-045-2022/0	Hinrichs, Christian S.		Zelluna Immunotherapy AS	3-Feb-22
L-231-2015/0	NCI		Cartesian Therapeutics, Inc	4-Feb-22
L-239-2019/0	NCI		Cartesian Therapeutics, Inc.	7-Feb-22
L-222-2020/1	Chien, Christopher	(b) (6)	Senti Biosciences, Inc.	7-Feb-22
L-222-2020/1	Fry, Terry	(b) (4)	Senti Biosciences, Inc.	7-Feb-22
L-097-2021/0	Gao, Wei		Senti Biosciences, Inc.	7-Feb-22
L-097-2021/0	Ho, Mitchell		Senti Biosciences, Inc.	7-Feb-22
L-097-2021/0	Phung, Yen T.		Senti Biosciences, Inc.	7-Feb-22
L-097-2021/0	Zhang, Yifan		Senti Biosciences, Inc.	7-Feb-22
L-156-2021/0	Fry, Terry		Senti Biosciences, Inc.	7-Feb-22
L-156-2021/0	Qin, Haiying		Senti Biosciences, Inc.	7-Feb-22
L-052-2022/0	Antignani, Antonella		ADC Therapeutics SA	7-Feb-22
L-052-2022/0	Fitzgerald, David J.		ADC Therapeutics SA	7-Feb-22
L-052-2022/0	Ho, Eric Chun Hei		ADC Therapeutics SA	7-Feb-22
L-052-2022/0	Sarnovsky, Robert		ADC Therapeutics SA	7-Feb-22
L-052-2022/0	NCI		ADC Therapeutics SA	7-Feb-22
L-147-2010/1	Green, Jeffrey E	(b) (6), (b) (4)	Pfizer	8-Feb-22
L-118-2020/0	Bonomi, Carrie A.		Nitto BioPharma, Inc.	8-Feb-22
L-118-2020/0	Dougherty, Kelly		Nitto BioPharma, Inc.	8-Feb-22

L-118-2020/0	Hollingshead, Melinda G.	(b) (6), Nitto BioPharma, Inc.	8-Feb-22
L-230-2021/0	Bonomi, Carrie A.	(b) (4) The Jackson Laboratory	8-Feb-22
L-230-2021/0	Borgel, Suzanne D.	The Jackson Laboratory	8-Feb-22
L-230-2021/0	Dougherty, Kelly	The Jackson Laboratory	8-Feb-22
L-230-2021/0	Hollingshead, Melinda G.	The Jackson Laboratory	8-Feb-22
L-133-2009/0	Gazdar, (b) (6) Adi	Ventana Medical Systems, Inc.	9-Feb-22
L-133-2009/0	Johnson, Bruce E	Ventana Medical Systems, Inc.	9-Feb-22
L-133-2009/0	Kaye, Frederic J	Ventana Medical Systems, Inc.	9-Feb-22
L-133-2009/0	Khleif, Samir N.	Ventana Medical Systems, Inc.	9-Feb-22
L-133-2009/0	Minna, John D.	Ventana Medical Systems, Inc.	9-Feb-22
L-133-2009/0	Oie, (b) (6) Herbert K	Ventana Medical Systems, Inc.	9-Feb-22
L-133-2009/0	Pass, Harvey I	Ventana Medical Systems, Inc.	9-Feb-22
L-043-2021/1	Keseling, Beverly G	PTC Therapeutics GT, Inc.	9-Feb-22
L-043-2021/1	Warfield, Paul	PTC Therapeutics GT, Inc.	9-Feb-22
L-051-2022/0	Gazdar, (b) (6) Adi	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-051-2022/0	Johnson, Bruce E	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-051-2022/0	Kaye, Frederic J	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-051-2022/0	Khleif, Samir N.	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-051-2022/0	Minna, John D.	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-051-2022/0	Oie, (b) (6) Herbert K	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-051-2022/0	Pass, Harvey I	Betta Pharmaceuticals Co., Ltd.	9-Feb-22
L-058-2022/0	Bonomi, Carrie A.	SPARK Biopharma Inc.	9-Feb-22
L-058-2022/0	Dougherty, Kelly	SPARK Biopharma Inc.	9-Feb-22
L-058-2022/0	Hollingshead, Melinda G.	SPARK Biopharma Inc.	9-Feb-22
L-039-2011/0	Onda, Masanori	Rockland Immunochemicals, Inc.	10-Feb-22
L-039-2011/0	Pastan, Ira H	Rockland Immunochemicals, Inc.	10-Feb-22
L-091-2011/0	Chang, Nancy T.	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Fisher, Amanda G.	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Gallo, Robert C.	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Hahn, Beatrice	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	(b) (4)	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Popovic, Mikulas	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Sarnagadharan, Mangalasseril	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Shaw, George M	Quest Diagnostics, Inc.	10-Feb-22
L-091-2011/0	Wong-Staal (b) (6)	Quest Diagnostics, Inc.	10-Feb-22
L-249-2014/0	Copeland, Neal	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Costantino, Nina	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Court, Donald	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Ellis, Hilary Moyed	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Jenkins Copeland, Nancy A	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Lee, E-Chiang	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Liu, Pentao	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Sharan, Shyam K	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Swaminathan, Srividya	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Warming, Soren	Merck Sharp & Dohme Corp.	10-Feb-22
L-249-2014/0	Yu, Daiguan	Merck Sharp & Dohme Corp.	10-Feb-22
L-107-2015/2	Dudley, Mark	Iovance Biotherapeutics, Inc.	10-Feb-22
L-107-2015/2	Hinrichs, Christian S.	Iovance Biotherapeutics, Inc.	10-Feb-22
L-107-2015/2	Jin, Benjamin Yongzu	Iovance Biotherapeutics, Inc.	10-Feb-22
L-107-2015/2	Somerville, Robert P.	Iovance Biotherapeutics, Inc.	10-Feb-22

(b) (3) (A), (b) (4), (b) (6)

L-107-2015/2	Wunderlich, John <i>Note: L-107-2015/2 split between CC; NCI</i>	(b) (6), (b) (4) ovance Biotherapeutics, Inc.	10-Feb-22
L-108-2015/0	NCI	ovance Biotherapeutics Inc	10-Feb-22
L-053-2021/0	NCI	GLG Pharma, LLC	10-Feb-22
L-053-2021/0	NCI	GLG Pharma, LLC	10-Feb-22
L-053-2021/0	NCI	GLG Pharma, LLC	10-Feb-22
L-065-2022/0	Columbus, John Milton	(b) (6), Quanta Therapeutics, Inc.	10-Feb-22
L-065-2022/0	Esposito, Dominic	(b) (4) Quanta Therapeutics, Inc.	10-Feb-22
L-065-2022/0	Turbyville, Thomas Jefferson	Quanta Therapeutics, Inc.	10-Feb-22
L-197-1994/3	Cheng, Sheue-Yann	Santa Cruz Biotechnology, Inc.	11-Feb-22
L-138-2005/3	Chang, Kai	Santa Cruz Biotechnology Inc	11-Feb-22
L-138-2005/3	Pastan, Ira H	Santa Cruz Biotechnology Inc	11-Feb-22
L-138-2005/3	Willingham, Mark C.	Santa Cruz Biotechnology Inc	11-Feb-22
L-138-2005/3	Chang, Kai	Santa Cruz Biotechnology Inc	11-Feb-22
L-138-2005/3	Pastan, Ira H	Santa Cruz Biotechnology Inc	11-Feb-22
L-138-2005/3	Willingham, Mark C.	Santa Cruz Biotechnology Inc	11-Feb-22
L-031-2007/2	Aaronson, Stuart A.	Santa Cruz Biotechnology	11-Feb-22
L-031-2007/2	Lacal, Juan C.	Santa Cruz Biotechnology	11-Feb-22
L-108-2009/0	Conrads, Thomas P	AB Sciex, LLC	11-Feb-22
L-108-2009/0	Issaq, Haleem J.	AB Sciex, LLC	11-Feb-22
L-108-2009/0	Janini, George	AB Sciex, LLC	11-Feb-22
L-108-2009/0	Veenstra, Timothy D	AB Sciex, LLC	11-Feb-22
L-108-2009/0	Wilkens, Kenneth L.	AB Sciex, LLC	11-Feb-22
L-088-2016/1	Kewalramani, Vineet N	Takeda Vaccines	11-Feb-22
L-088-2016/1	Martin, Thomas	Takeda Vaccines	11-Feb-22
L-108-2020/0	Chien, Christopher	ElevateBio	11-Feb-22
L-108-2020/0	Fry, Terry	ElevateBio	11-Feb-22
L-187-2021/0	Bonomi, Carrie A.	Janssen Research & Development, LLC	11-Feb-22
L-187-2021/0	Dougherty, Kelly	Janssen Research & Development, LLC	11-Feb-22
L-187-2021/0	Hollingshead, Melinda G.	Janssen Research & Development, LLC	11-Feb-22
L-042-2022/0	Gazdar, (b) (6) Adi	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-042-2022/0	Johnson, Bruce E	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-042-2022/0	Kaye, Frederic J	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-042-2022/0	Khleif, Samir N.	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-042-2022/0	Minna, John D.	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-042-2022/0	Oie, (b) (6) Herbert K	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-042-2022/0	Pass, Harvey I	ImmuneOncia Therapeutics, Inc.	11-Feb-22
L-011-2006/0	NCI	Dako Denmark A/S	14-Feb-22
L-239-2015/0	Gazdar, (b) (6) Adi	(b) (6) Dako North America	14-Feb-22
L-239-2015/0	Johnson, Bruce E	(b) (4) Dako North America	14-Feb-22
L-239-2015/0	Kaye, Frederic J	Dako North America	14-Feb-22
L-239-2015/0	Khleif, Samir N.	Dako North America	14-Feb-22
L-239-2015/0	Minna, John D.	Dako North America	14-Feb-22

(b) (3) (A), (b) (4), (b) (6)

L-239-2015/0	Oie, (b) (6) Herbert K	(b) Dako North America	14-Feb-22
L-239-2015/0	Pass, Harvey I	(4) Dako North America	14-Feb-22
L-083-2018/1	Bonomi, Carrie A.	(b) (6) Evotec SAS	14-Feb-22
L-083-2018/1	Borgel, Suzanne D.	Evotec SAS	14-Feb-22
L-083-2018/1	Dougherty, Kelly	Evotec SAS	14-Feb-22
L-083-2018/1	Hollingshead, Melinda G.	Evotec SAS	14-Feb-22
L-014-2022/0	Bonomi, Carrie A.	eTheRNA immunotherapies	14-Feb-22
L-014-2022/0	Borgel, Suzanne D.	eTheRNA immunotherapies	14-Feb-22
L-014-2022/0	Dougherty, Kelly	eTheRNA immunotherapies	14-Feb-22
L-014-2022/0	Hollingshead, Melinda G.	eTheRNA immunotherapies	14-Feb-22
L-245-1994/1	Gallo, Robert C.	SearCare Life Sciences	15-Feb-22
L-245-1994/1	Popovic, Mikulas	SearCare Life Sciences	15-Feb-22
L-245-1994/1	Sarnagadharan, Mangalasseril	SearCare Life Sciences	15-Feb-22
<i>Note: L-245-1994/1 split between NCI; NIAID</i>			
L-090-1998/1	Allegra, Carmen	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	Chabner, Bruce A	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	(b) (4),	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	Johnston, (b) (6) Patrick G.	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	Kawakami, Yutaka	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	Liang, Chi-Ming	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	Schlom, Jeffrey	NeoMarkers, Inc.	15-Feb-22
L-090-1998/1	(b) (4)	NeoMarkers, Inc.	15-Feb-22
L-161-2004/1	Gallo, Robert C.	SeraCare Life Sciences, Inc.	15-Feb-22
L-161-2004/1	(b) (4)	SeraCare Life Sciences, Inc.	15-Feb-22
L-161-2004/1	Popovic, Mikulas	SeraCare Life Sciences, Inc.	15-Feb-22
L-161-2004/1	Sarnagadharan, Mangalasseril	SeraCare Life Sciences, Inc.	15-Feb-22
L-075-2013/1	Franchini, Genoveffa	WuXi Advanced Therapies Inc.	15-Feb-22
L-075-2013/1	Gallo, Robert C.	WuXi Advanced Therapies Inc.	15-Feb-22
L-075-2013/1	Kalyanaraman, Vaniambadi S.	WuXi Advanced Therapies Inc.	15-Feb-22
L-075-2013/1	Markham, Phillip D.	WuXi Advanced Therapies Inc.	15-Feb-22
L-075-2013/1	Salahuddin, Syed Z.	WuXi Advanced Therapies Inc.	15-Feb-22
L-075-2013/1	Wong-Staal (b) (6)	WuXi Advanced Therapies Inc.	15-Feb-22
L-247-2017/1	Beyer, Rachel K. B.	Revolution Medicines, Inc.	15-Feb-22
L-247-2017/1	(b) (4)	Revolution Medicines, Inc.	15-Feb-22
L-247-2017/1	Holderfield, Matthew T.	Revolution Medicines, Inc.	15-Feb-22
L-247-2017/1	Soppet, Dan	Revolution Medicines, Inc.	15-Feb-22
L-024-2018/0	Gazdar, (b) (6) Adi	SeraCare Life	15-Feb-22
L-024-2018/0	Johnson, Bruce E	SeraCare Life	15-Feb-22
L-024-2018/0	Kaye, Frederic J	SeraCare Life	15-Feb-22
L-024-2018/0	Khleif, Samir N.	SeraCare Life	15-Feb-22
L-024-2018/0	Minna, John D.	SeraCare Life	15-Feb-22
L-024-2018/0	Oie (b) (6) Herbert K	SeraCare Life	15-Feb-22
L-024-2018/0	Pass, Harvey I	SeraCare Life	15-Feb-22
L-132-2019/0	Bonomi, Carrie A.	Shattuck Labs, Inc	15-Feb-22
L-132-2019/0	Borgel, Suzanne D.	Shattuck Labs, Inc	15-Feb-22
L-132-2019/0	Dougherty, Kelly	Shattuck Labs, Inc	15-Feb-22
L-132-2019/0	Hollingshead, Melinda G.	Shattuck Labs, Inc	15-Feb-22
L-161-2019/0	Gazdar, (b) (6) Adi	SearCare Life Sciences	15-Feb-22
L-161-2019/0	Johnson, Bruce E	SearCare Life Sciences	15-Feb-22

(b) (3) (A), (b) (4), (b) (6)

L-161-2019/0	Kaye, Frederic J	(b) (4)	SearCare Life Sciences	15-Feb-22
L-161-2019/0	Khleif, Samir N.	(b) (6)	SearCare Life Sciences	15-Feb-22
L-161-2019/0	Minna, John D.		SearCare Life Sciences	15-Feb-22
L-161-2019/0	Oie, (b) (6) Herbert K		SearCare Life Sciences	15-Feb-22
L-161-2019/0	Pass, Harvey I		SearCare Life Sciences	15-Feb-22
L-213-2020/0	Beyer, Rachel K. B.		Bristol Myers Squibb Company	15-Feb-22
L-213-2020/0	(b) (4)		Bristol Myers Squibb Company	15-Feb-22
L-213-2020/0	Holderfield, Matthew T.		Bristol Myers Squibb Company	15-Feb-22
L-213-2020/0	Soppet, Dan		Bristol Myers Squibb Company	15-Feb-22
L-117-2018/1	Bonomi, Carrie A.		Morphic Therapeutic	16-Feb-22
L-117-2018/1	Borgel, Suzanne D.		Morphic Therapeutic	16-Feb-22
L-117-2018/1	Dougherty, Kelly		Morphic Therapeutic	16-Feb-22
L-117-2018/1	Hollingshead, Melinda G.		Morphic Therapeutic	16-Feb-22
L-220-2020/0	Bonomi, Carrie A.		Inzen Therapeutics, Inc.	16-Feb-22
L-220-2020/0	Borgel, Suzanne D.		Inzen Therapeutics, Inc.	16-Feb-22
L-220-2020/0	Dougherty, Kelly		Inzen Therapeutics, Inc.	16-Feb-22
L-220-2020/0	Hollingshead, Melinda G.		Inzen Therapeutics, Inc.	16-Feb-22
L-200-2015/1	Aaronson, Stuart A.		TILT Biotherapeutics, Ltd.	17-Feb-22
L-200-2015/1	(b) (6) Donald J. Giard		TILT Biotherapeutics, Ltd.	17-Feb-22
L-200-2015/1	Parks, Wade P.		TILT Biotherapeutics, Ltd.	17-Feb-22
L-090-2021/0	Bonomi, Carrie A.		Jounce Therapeutics, Inc.	17-Feb-22
L-090-2021/0	Dougherty, Kelly		Jounce Therapeutics, Inc.	17-Feb-22
L-090-2021/0	Hollingshead, Melinda G.		Jounce Therapeutics, Inc.	17-Feb-22
L-102-2021/0	Felber, Barbara K.		Biogen, Inc	17-Feb-22
L-102-2021/0	Pavlakis, George N		Biogen, Inc	17-Feb-22
L-102-2021/0	Valentin, Antonio L.		Biogen, Inc	17-Feb-22
L-154-2021/0	Gazdar, (b) (6) Adi		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-154-2021/0	Johnson, Bruce E		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-154-2021/0	Kaye, Frederic J		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-154-2021/0	Khleif, Samir N.		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-154-2021/0	Minna, John D.		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-154-2021/0	Oie (b) (6) Herbert K		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-154-2021/0	Pass, Harvey I		Sun Pharma Advanced Research Company Ltd	17-Feb-22
L-061-2014/0	Hwu, Patrick		Cabaret Biotech Ltd.	18-Feb-22
L-041-1998/2	Alimandi, Maurizio		Millipore Sigma	22-Feb-22
L-041-1998/2	Pierce, Jacalyn		Millipore Sigma	22-Feb-22
L-041-1998/2	Wang, Ling-Mei		Millipore Sigma	22-Feb-22
L-286-1999/1	Klee, Claude		Millipore Sigma	22-Feb-22
L-286-1999/1	Li, Shipeng		Millipore Sigma	22-Feb-22
L-286-1999/1	Saddig, Christiane		Millipore Sigma	22-Feb-22
L-286-1999/1	Stump, Ann		Millipore Sigma	22-Feb-22
L-049-2001/3	Bustin, Michael		Millipore Sigma	22-Feb-22
L-015-2011/0	Landry, Joseph W.		Millipore Sigma	22-Feb-22
L-015-2011/0	Wu, Carl		Millipore Sigma	22-Feb-22
L-111-2013/0	Muchmore, Brian P.		Millipore Sigma	22-Feb-22
L-111-2013/0	O'Brien, Thomas R		Millipore Sigma	22-Feb-22

L-111-2013/0	Porter-Gill, Patricia A.	(b) (4)	Millipore Sigma	22-Feb-22
L-111-2013/0	Prokunina-Olsson, Ludmila	(b) (6)	Millipore Sigma	22-Feb-22
<i>Note: L-111-2013/0 split between FDA; NCI</i>				
L-152-2013/0	Doroshov, James H.		Millipore Sigma	22-Feb-22
L-152-2013/0	Jiang, Guojian		Millipore Sigma	22-Feb-22
L-152-2013/0	Roy, Krishnendu K.		Millipore Sigma	22-Feb-22
L-152-2013/0	Wu, Yongzhong		Millipore Sigma	22-Feb-22
L-097-2015/0	Rubin, Jeffrey S		Millipore Sigma	22-Feb-22
L-097-2015/0	Uren, Aykut		Millipore Sigma	22-Feb-22
L-232-2015/0	Kim, Tae Sung		EMD Millipore Corp.	22-Feb-22
L-232-2015/0	Lee, Kyung S		EMD Millipore Corp.	22-Feb-22
L-232-2015/0	Park, Jung-Eun		EMD Millipore Corp.	22-Feb-22
L-250-2015/0	Adachi, Yoshifumi		EMD Millipore Corp.	22-Feb-22
L-250-2015/0	Copeland, Terry D.		EMD Millipore Corp.	22-Feb-22
L-250-2015/0	Pavlakis, George N		EMD Millipore Corp.	22-Feb-22
L-250-2015/0	Specht, Suzanne I.		EMD Millipore Corp.	22-Feb-22
L-057-2016/1	Hollingshead, Melinda G.		Millipore Sigma	22-Feb-22
L-057-2016/1	Sausville, Edward		Millipore Sigma	22-Feb-22
L-057-2016/1	Snader, Kenneth M		Millipore Sigma	22-Feb-22
L-057-2016/1	Vishnuvajjala, B. Rao		Millipore Sigma	22-Feb-22
L-280-2017/0	Ise, Tomoko		Millipore Sigma	22-Feb-22
L-280-2017/0	Nagata, Satoshi		Millipore Sigma	22-Feb-22
L-280-2017/0	Pastan, Ira H		Millipore Sigma	22-Feb-22
L-280-2017/0	Xiang, Laiman		Millipore Sigma	22-Feb-22
L-318-2017/0	Onda, Masanori		Millipore Sigma	22-Feb-22
L-318-2017/0	Pastan, Ira H		Millipore Sigma	22-Feb-22
L-019-2018/0	Spiese, Paul J		Millipore Sigma	22-Feb-22
L-019-2018/0	Yang, James Chung-Yin		Millipore Sigma	22-Feb-22
L-031-2018/0	Abrams, Scott I		Millipore Sigma	22-Feb-22
L-031-2018/0	Schlom, Jeffrey		Millipore Sigma	22-Feb-22
L-148-2018/1	NCI		BravoVax Co., Ltd.	22-Feb-22
L-012-2019/0	Buck, Christopher	(b) (4)	EMD Millipore Corporation	22-Feb-22
		(b) (6)		
L-220-2019/1	Deniger, Drew		Turnstone Biologics Inc.	22-Feb-22
L-220-2019/1	Lalani, Almin		Turnstone Biologics Inc.	22-Feb-22
L-220-2019/1	Robbins, Paul F		Turnstone Biologics Inc.	22-Feb-22
L-062-2021/0	Bonomi, Carrie A.		Kezar Life Sciences, Inc.	22-Feb-22
L-062-2021/0	Borgel, Suzanne D.		Kezar Life Sciences, Inc.	22-Feb-22
L-062-2021/0	Dougherty, Kelly		Kezar Life Sciences, Inc.	22-Feb-22
L-062-2021/0	Hollingshead, Melinda G.		Kezar Life Sciences, Inc.	22-Feb-22
L-049-2022/0	Buck, Christopher		Molecular Partners AG	22-Feb-22
L-049-2022/0	Pastrana, Diana V		Molecular Partners AG	22-Feb-22
L-049-2022/0	Schiller, John T		Molecular Partners AG	22-Feb-22
L-049-2022/0	Buck, Christopher		Molecular Partners AG	22-Feb-22
L-049-2022/0	Pastrana, Diana V		Molecular Partners AG	22-Feb-22

Case Number	Name	Organization	Date	Redaction
L-049-2022/0	Schiller, John T	(b) (4), (b) (6) Molecular Partners AG	22-Feb-22	(b) (3) (A), (b) (4), (b) (6)
L-049-2022/0	Buck, Christopher	Molecular Partners AG	22-Feb-22	
L-049-2022/0	Pastrana, Diana V	Molecular Partners AG	22-Feb-22	
L-049-2022/0	Schiller, John T	Molecular Partners AG	22-Feb-22	
L-010-2008/1	Hathcock, Karen	BioLegend	23-Feb-22	
L-010-2008/1	Hodes, Richard J	BioLegend	23-Feb-22	
L-010-2008/1	Laszlo, Gloria	BioLegend	23-Feb-22	
L-020-2008/2	Roop, Dennis R.	BioLegend	23-Feb-22	
L-020-2008/2	Steinert, (b) (6) Peter M.	BioLegend	23-Feb-22	
L-020-2008/2	Yuspa, Stuart H.	BioLegend	23-Feb-22	
L-042-2008/1	Azimi, Nazli	BioLegend	23-Feb-22	
L-042-2008/1	Dubois, Sigrid	BioLegend	23-Feb-22	
L-042-2008/1	Goldman, Carolyn	BioLegend	23-Feb-22	
L-042-2008/1	Kilbourne, Jennifer Mariner	BioLegend	23-Feb-22	
L-042-2008/1	Lantz, Valerie A	BioLegend	23-Feb-22	
L-042-2008/1	Waldmann, Thomas A.	BioLegend	23-Feb-22	
L-073-2009/1	Bonner, William M	BioLegend	23-Feb-22	
L-073-2009/1	Rogakou, Efthimia P	BioLegend	23-Feb-22	
L-092-2009/2	Makrigiannis, Andrew P.	BioLegend, Inc.	23-Feb-22	
L-136-2009/1	Mason, Llewellyn H.	BioLegend	23-Feb-22	
L-136-2009/1	Ortaldo, John R.	BioLegend	23-Feb-22	
L-007-2011/2	Onda, Masanori	BioLegend	23-Feb-22	
L-007-2011/2	Pastan, Ira H	BioLegend	23-Feb-22	
L-037-2011/1	Jelinek, Ivett	BioLegend	23-Feb-22	
L-037-2011/1	Segal, David M.	BioLegend	23-Feb-22	
L-037-2011/1	Wang, Yan	BioLegend	23-Feb-22	
L-070-2012/1	Hathcock, Karen	BioLegend	23-Feb-22	
L-070-2012/1	Hodes, Richard J	BioLegend	23-Feb-22	
L-070-2012/1	Laszlo, Gloria	BioLegend	23-Feb-22	
L-095-2012/0	Baskar, Sivasubramanian	BioLegend	23-Feb-22	
L-095-2012/0	Rader, Christoph	BioLegend	23-Feb-22	
L-198-2015/0	Ise, Tomoko	BioLegend	23-Feb-22	
L-198-2015/0	Nagata, Satoshi	BioLegend	23-Feb-22	
L-198-2015/0	Pastan, Ira H	BioLegend	23-Feb-22	
L-181-2018/1	Bonomi, Carrie A.	ModernaTX, Inc.	23-Feb-22	
L-181-2018/1	Borgel, Suzanne D.	ModernaTX, Inc.	23-Feb-22	
L-181-2018/1	Dougherty, Kelly	ModernaTX, Inc.	23-Feb-22	
L-181-2018/1	Hollingshead, Melinda G.	ModernaTX, Inc.	23-Feb-22	
L-206-2021/1	Gazdar, (b) (6) Adi	ARC Therapeutics, LLC	23-Feb-22	
L-206-2021/1	Johnson, Bruce E	ARC Therapeutics, LLC	23-Feb-22	
L-206-2021/1	Kaye, Frederic J	ARC Therapeutics, LLC	23-Feb-22	
L-206-2021/1	Khleif, Samir N.	ARC Therapeutics, LLC	23-Feb-22	
L-206-2021/1	Minna, John D.	ARC Therapeutics, LLC	23-Feb-22	
L-206-2021/1	Oie, (b) (6) Herbert K	ARC Therapeutics, LLC	23-Feb-22	
L-206-2021/1	Pass, Harvey I	ARC Therapeutics, LLC	23-Feb-22	

(b) (3) (A), (b) (4), (b) (6)

L-020-2022/1	NCI	Caring Cross, Inc.	23-Feb-22
L-021-2022/0	Bonomi, Carrie A.	(b) (4), Chimeron Bio	23-Feb-22
L-021-2022/0	Borgel, Suzanne D.	(b) (6) Chimeron Bio	23-Feb-22
L-021-2022/0	Dougherty, Kelly	Chimeron Bio	23-Feb-22
L-021-2022/0	Hollingshead, Melinda G.	Chimeron Bio	23-Feb-22
L-066-2022/0	Burgess, Rebecca C.	RADD Pharmaceuticals, Inc.	23-Feb-22
L-066-2022/0	Misteli, Thomas	RADD Pharmaceuticals, Inc.	23-Feb-22
L-017-1989/0	Aaronson, Stuart A.	Bayer AG	25-Feb-22
L-017-1989/0	King, Charles R.	Bayer AG	25-Feb-22
L-017-1989/0	Kraus, (b) (6) Matthias	Bayer AG	25-Feb-22
L-055-2012/1	Gazdar, (b) (6) Adi	Labcorp Early Development Laboratories,	25-Feb-22
L-055-2012/1	Johnson, Bruce E	Labcorp Early Development Laboratories,	25-Feb-22
L-055-2012/1	Kaye, Frederic J	Labcorp Early Development Laboratories,	25-Feb-22
L-055-2012/1	Khleif, Samir N.	Labcorp Early Development Laboratories,	25-Feb-22
L-055-2012/1	Minna, John D.	Labcorp Early Development Laboratories,	25-Feb-22
L-055-2012/1	Oie, (b) (6) Herbert K	Labcorp Early Development Laboratories,	25-Feb-22
L-055-2012/1	Pass, Harvey I	Labcorp Early Development Laboratories,	25-Feb-22
L-229-2017/0	Bonomi, Carrie A.	Labcorp Early Development Laboratories,	25-Feb-22
L-229-2017/0	Borgel, Suzanne D.	Labcorp Early Development Laboratories,	25-Feb-22
L-229-2017/0	Dougherty, Kelly	Labcorp Early Development Laboratories,	25-Feb-22
L-229-2017/0	Hollingshead, Melinda G.	Labcorp Early Development Laboratories,	25-Feb-22
L-185-2021/0	Bonomi, Carrie A.	Anwita Biosciences Inc.	28-Feb-22
L-185-2021/0	Borgel, Suzanne D.	Anwita Biosciences Inc.	28-Feb-22
L-185-2021/0	Dougherty, Kelly	Anwita Biosciences Inc.	28-Feb-22
L-185-2021/0	Hollingshead, Melinda G.	Anwita Biosciences Inc.	28-Feb-22

NIH Patent Licensing Activities

NCI

March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-049-1994/2	Cheng, Sheue-Yann	(b) (4),	Pierce BioTechnology, Inc	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-200-1997/2	Gelboin, (b) (6) Harry	(b) (6)	Life Technologies	1-Mar-22						
L-200-1997/2	Gonzalez, Frank J.		Life Technologies	1-Mar-22						
L-049-2000/1	Hathcock, Karen		Bioscience, Inc..	1-Mar-22						
L-049-2000/1	Hodes, Richard J		Bioscience, Inc..	1-Mar-22						
L-049-2000/1	Laszlo, Gloria		Bioscience, Inc..	1-Mar-22						
<i>Note: L-049-2000/1 split between NCI; NIAID</i>										
L-091-2004/1	Makrigiannis, Andrew P.		Ebioscience	1-Mar-22						
L-114-2006/1	Azimi, Nazli		Affymetrix, Inc.	1-Mar-22						
L-114-2006/1	Dubois, Sigrid		Affymetrix, Inc.	1-Mar-22						
L-114-2006/1	Goldman, Carolyn		Affymetrix, Inc.	1-Mar-22						
L-114-2006/1	Kilbourne, Jennifer Mariner		Affymetrix, Inc.	1-Mar-22						
L-114-2006/1	Lantz, Valerie A		Affymetrix, Inc.	1-Mar-22						
L-114-2006/1	Waldmann, Thomas A.		Affymetrix, Inc.	1-Mar-22						

L-004-2007/2	Qasba, Pradman	(b) (4),	Life Technologies Corp.	1-Mar-22
L-004-2007/2	Ramakrishnan, Boopathy	(b) (6)	Life Technologies Corp.	1-Mar-22
L-084-2011/3	Gazdar, (b) (6) Adi		Nichirei Biosciences, Inc.	1-Mar-22
L-084-2011/3	Johnson, Bruce E		Nichirei Biosciences, Inc.	1-Mar-22
L-084-2011/3	Kaye, Frederic J		Nichirei Biosciences, Inc.	1-Mar-22
L-084-2011/3	Khleif, Samir N.		Nichirei Biosciences, Inc.	1-Mar-22
L-084-2011/3	Minna, John D.		Nichirei Biosciences, Inc.	1-Mar-22
L-084-2011/3	Oie, (b) (6) Herbert K		Nichirei Biosciences, Inc.	1-Mar-22
L-084-2011/3	Pass, Harvey I		Nichirei Biosciences, Inc.	1-Mar-22
L-273-2014/0	Chang, Nancy T.		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Gallo, Robert C.		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Popovic, Mikulas		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Sarngadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Shaw, George M		Grifols Worldwide Operations Ltd.	1-Mar-22
L-273-2014/0	Wong-Staal (b) (6)		Grifols Worldwide Operations Ltd.	1-Mar-22
L-116-2016/1	(b) (4)		Relay Therapeutics, Inc	1-Mar-22
L-116-2016/1	Esposito, Dominic		Relay Therapeutics, Inc	1-Mar-22
L-116-2016/1	Gillette, William K.		Relay Therapeutics, Inc	1-Mar-22
L-116-2016/1	Grose, Carissa L.		Relay Therapeutics, Inc	1-Mar-22
L-116-2016/1	Hopkins, Ralph F.		Relay Therapeutics, Inc	1-Mar-22
L-116-2016/1	Roberts, Veronica Ann		Relay Therapeutics, Inc	1-Mar-22
L-122-2017/0	Choyke, Peter L		Koninklijke Philips N.V.	1-Mar-22
L-122-2017/0	Pinto, Peter A		Koninklijke Philips N.V.	1-Mar-22
L-122-2017/0	Turkbey, Ismail B.		Koninklijke Philips N.V.	1-Mar-22
<i>Note: L-122-2017/0 split between CC; NCI</i>				
L-273-2018/0	Bonomi, Carrie A.		August Bioservices, LLC	1-Mar-22
L-273-2018/0	Borgel, Suzanne D.		August Bioservices, LLC	1-Mar-22
L-273-2018/0	Dougherty, Kelly		August Bioservices, LLC	1-Mar-22
L-273-2018/0	Hollingshead, Melinda G.		August Bioservices, LLC	1-Mar-22
L-097-2019/0	Bonomi, Carrie A.		Janssen Research & Development, LLC	1-Mar-22
L-097-2019/0	Borgel, Suzanne D.		Janssen Research & Development, LLC	1-Mar-22
L-097-2019/0	Dougherty, Kelly		Janssen Research & Development, LLC	1-Mar-22
L-097-2019/0	Hollingshead, Melinda G.		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Gazdar, (b) (6) Adi		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Johnson, Bruce E		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Kaye, Frederic J		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Khleif, Samir N.		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Minna, John D.		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Oie, (b) (6) Herbert K		Janssen Research & Development, LLC	1-Mar-22
L-063-2021/0	Pass, Harvey I		Janssen Research & Development, LLC	1-Mar-22
L-125-2021/0	Beyer, Rachel K. B.		Relay Therapeutics, Inc	1-Mar-22
L-125-2021/0	(b) (4)		Relay Therapeutics, Inc	1-Mar-22
L-125-2021/0	Holderfield, Matthew T.		Relay Therapeutics, Inc	1-Mar-22
L-125-2021/0	Soppet, Dan		Relay Therapeutics, Inc	1-Mar-22
L-057-2022/0	Gazdar, (b) (6) Adi		Daiichi Sankyo Co., Ltd.	1-Mar-22

L-057-2022/0	Johnson, Bruce E	(b) (4), Daiichi Sankyo Co., Ltd.	1-Mar-22
L-057-2022/0	Kaye, Frederic J	(b) (6) Daiichi Sankyo Co., Ltd.	1-Mar-22
L-057-2022/0	Khleif, Samir N.	Daiichi Sankyo Co., Ltd.	1-Mar-22
L-057-2022/0	Minna, John D.	Daiichi Sankyo Co., Ltd.	1-Mar-22
L-057-2022/0	Oie, (b) (6) Herbert K	Daiichi Sankyo Co., Ltd.	1-Mar-22
L-057-2022/0	Pass, Harvey I	Daiichi Sankyo Co., Ltd.	1-Mar-22
L-271-2001/8	Gupta, Shanker Lal	Millennium Pharmaceuticals, Inc.	2-Mar-22
L-271-2001/8	(b) (4)	Millennium Pharmaceuticals, Inc.	2-Mar-22
L-055-2022/0	Cafri, Gal	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Deniger, Drew	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Hanada, Kenichi	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Kim, Sanghyun	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Levin, Noam	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Lo, Winifred Margaret	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Lowery, Frank	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Lu, Yong-Chen	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Malekzadeh, Parisa	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Paria, Biman	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Parkhurst, Maria	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Pasetto, Anna	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Robbins, Paul F	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Tran, Eric	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Wang, Qiong	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Yang, James Chung-Yin	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Yoseph, Rami	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Yu, Zhiya	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Zacharakis, Nikolaos	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Zheng, Zhili	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Cafri, Gal	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Deniger, Drew	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Hanada, Kenichi	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Kim, Sanghyun	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Levin, Noam	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Lo, Winifred Margaret	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Lowery, Frank	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Lu, Yong-Chen	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Malekzadeh, Parisa	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Paria, Biman	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Parkhurst, Maria	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Pasetto, Anna	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Robbins, Paul F	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Tran, Eric	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Wang, Qiong	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Yang, James Chung-Yin	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Yoseph, Rami	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Yu, Zhiya	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Zacharakis, Nikolaos	Neogene Therapeutics, Inc.	2-Mar-22
L-055-2022/0	Zheng, Zhili	Neogene Therapeutics, Inc.	2-Mar-22
L-125-2013/0	Gazdar, (b) (6) Adi	BioRad	3-Mar-22
L-125-2013/0	Johnson, Bruce E	BioRad	3-Mar-22
L-125-2013/0	Kaye, Frederic J	BioRad	3-Mar-22
L-125-2013/0	Khleif, Samir N.	BioRad	3-Mar-22
L-125-2013/0	Minna, John D.	BioRad	3-Mar-22
L-125-2013/0	Oie, (b) (6) Herbert K	BioRad	3-Mar-22
L-125-2013/0	Pass, Harvey I	BioRad	3-Mar-22

L-224-2015/0	NCI	2seventy bio	3-Mar-22
L-092-2012/2	Bergamaschi, Cristina	(b) (4) Admune Therapeutics LLC	4-Mar-22
L-092-2012/2	Felber, Barbara K.	(b) (6) Admune Therapeutics LLC	4-Mar-22
L-092-2012/2	Pavlikis, George N	Admune Therapeutics LLC	4-Mar-22
L-092-2012/2	Valentin, Antonio L.	Admune Therapeutics LLC	4-Mar-22
L-011-2019/0	Gottesman, Michael M.	Amgen, Inc.	4-Mar-22
L-011-2019/0	Pastan, Ira H	Amgen, Inc.	4-Mar-22
L-011-2019/0	Ueda, Kazumitsu	Amgen, Inc.	4-Mar-22
L-259-2018/1	Bonomi, Carrie A.	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Borgel, Suzanne D.	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Dougherty, Kelly	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Hollingshead, Melinda G.	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Bonomi, Carrie A.	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Borgel, Suzanne D.	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Dougherty, Kelly	Oncoveda Cancer Research Center	7-Mar-22
L-259-2018/1	Hollingshead, Melinda G.	Oncoveda Cancer Research Center	7-Mar-22
L-033-2022/0	Bonomi, Carrie A.	KOJIN THERAPEUTICS, INC.	7-Mar-22
L-033-2022/0	Borgel, Suzanne D.	KOJIN THERAPEUTICS, INC.	7-Mar-22
L-033-2022/0	Dougherty, Kelly	KOJIN THERAPEUTICS, INC.	7-Mar-22
L-033-2022/0	Hollingshead, Melinda G.	KOJIN THERAPEUTICS, INC.	7-Mar-22
L-203-1994/0	Aaronson, Stuart A.	BD Biosciences - BD PharMingen, Inc.	8-Mar-22
L-203-1994/0	Jensen, Roy A.	BD Biosciences - BD PharMingen, Inc.	8-Mar-22
L-203-1994/0	LaRochelle, William	BD Biosciences - BD PharMingen, Inc.	8-Mar-22
L-203-1994/0	Matsui, Toshimitsu	BD Biosciences - BD PharMingen, Inc.	8-Mar-22
L-203-1994/0	Pierce, Jacalyn	BD Biosciences - BD PharMingen, Inc.	8-Mar-22
L-203-1994/0	Robbins, Keith	BD Biosciences - BD PharMingen, Inc.	8-Mar-22
L-154-1997/2	Mason, Llewellyn H.	BD Biosciences - BD PharMingen	8-Mar-22
L-154-1997/2	Ortaldo, John R.	BD Biosciences - BD PharMingen	8-Mar-22
L-097-2000/3	Austin, Faye C.	BD Biosciences, PharMingen	8-Mar-22
L-097-2000/3	Colcher, David	BD Biosciences, PharMingen	8-Mar-22
L-097-2000/3	Hand, Patricia H.	BD Biosciences, PharMingen	8-Mar-22
L-097-2000/3	Nuti, Marianna	BD Biosciences, PharMingen	8-Mar-22
L-097-2000/3	Schlom, Jeffrey	BD Biosciences, PharMingen	8-Mar-22
L-135-2010/0	Barry, Todd	Laboratory Corporation of America	8-Mar-22
L-135-2010/0	Rosenwald, Andreas	Laboratory Corporation of America	8-Mar-22
L-135-2010/0	Staudt, Louis M	Laboratory Corporation of America	8-Mar-22
L-135-2010/0	Wiestner, Adrian	Laboratory Corporation of America	8-Mar-22
L-135-2010/0	Wilson, Wyndham H.	Laboratory Corporation of America	8-Mar-22
L-100-2012/1	Ise, Tomoko	BD Biosciences	8-Mar-22
L-100-2012/1	Nagata, Satoshi	BD Biosciences	8-Mar-22
L-100-2012/1	Pastan, Ira H	BD Biosciences	8-Mar-22
L-076-2016/0	Azimi, Nazli	BD Biosciences	8-Mar-22
L-076-2016/0	Dubois, Sigrid	BD Biosciences	8-Mar-22
L-076-2016/0	Goldman, Carolyn	BD Biosciences	8-Mar-22
L-076-2016/0	Kilbourne, Jennifer Mariner	BD Biosciences	8-Mar-22
L-076-2016/0	Lantz, Valerie A	BD Biosciences	8-Mar-22
L-076-2016/0	Waldmann, Thomas A.	BD Biosciences	8-Mar-22

(b) (3) (A), (b) (4), (b) (6)

L-089-2016/4	NCI	H2bio	8-Mar-22	(b) (3) (A), (b) (4), (b) (6)
L-201-2016/0	Chang, Nancy T.	(b) (4), F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Crowl, Robert	(b) (6), F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Fisher, Amanda G.	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Gallo, Robert C.	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Hahn, Beatrice	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Popovic, Mikulas	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Reddy, E. Premkumar.	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Sarngadharan, Mangalasseril	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Shaw, George M	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-201-2016/0	Wong-Staal (b) (6)	F. Hoffmann-La Roche Ltd	8-Mar-22	
L-151-2019/0	Bonomi, Carrie A.	Pliant Therapeutics, Inc	8-Mar-22	
L-151-2019/0	Borgel, Suzanne D.	Pliant Therapeutics, Inc	8-Mar-22	
L-151-2019/0	Dougherty, Kelly	Pliant Therapeutics, Inc	8-Mar-22	
L-151-2019/0	Hollingshead, Melinda G.	Pliant Therapeutics, Inc	8-Mar-22	
L-136-2020/0	Dudley, Mark	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Fitzgerald, Peter C.	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Gros, Alena	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Lu, Yong-Chen	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Palmer, Douglas	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Restifo, Nicholas P.	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Robbins, Paul F	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Tran, Eric	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Wunderlich, John	Intima Bioscience Inc.	10-Mar-22	
L-136-2020/0	Zheng, Zhili	Intima Bioscience Inc.	10-Mar-22	
L-053-2021/0	NCI	GLG Pharma, LLC	10-Mar-22	
L-073-2022/0	Gazdar, (b) (6) Adi	(b) (4), Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-073-2022/0	Johnson, Bruce E	(b) (6), Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-073-2022/0	Kaye, Frederic J	Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-073-2022/0	Khleif, Samir N.	Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-073-2022/0	Minna, John D.	Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-073-2022/0	Oie, (b) (6) Herbert K	Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-073-2022/0	Pass, Harvey I	Betta Pharmaceuticals Co., Ltd.	10-Mar-22	
L-084-2022/0	Gao, Wei	Manhattan BioSolutions, Inc.	10-Mar-22	
L-084-2022/0	Hassan, Raffit	Manhattan BioSolutions, Inc.	10-Mar-22	
L-084-2022/0	Ho, Mitchell	Manhattan BioSolutions, Inc.	10-Mar-22	
L-084-2022/0	Pastan, Ira H	Manhattan BioSolutions, Inc.	10-Mar-22	
L-084-2022/0	Phung, Yen T.	Manhattan BioSolutions, Inc.	10-Mar-22	
L-084-2022/0	Zhang, Yifan	Manhattan BioSolutions, Inc.	10-Mar-22	
L-117-2018/1	Bonomi, Carrie A.	Morphic Therapeutic	11-Mar-22	
L-117-2018/1	Borgel, Suzanne D.	Morphic Therapeutic	11-Mar-22	
L-117-2018/1	Dougherty, Kelly	Morphic Therapeutic	11-Mar-22	
L-117-2018/1	Hollingshead, Melinda G.	Morphic Therapeutic	11-Mar-22	
L-127-2021/0	Gazdar, (b) (6) Adi	ALECTOR, LLC	11-Mar-22	
L-127-2021/0	Johnson, Bruce E	ALECTOR, LLC	11-Mar-22	
L-127-2021/0	Kaye, Frederic J	ALECTOR, LLC	11-Mar-22	
L-127-2021/0	Khleif, Samir N.	ALECTOR, LLC	11-Mar-22	
L-127-2021/0	Minna, John D.	ALECTOR, LLC	11-Mar-22	
L-127-2021/0	Oie, (b) (6) Herbert K	ALECTOR, LLC	11-Mar-22	
L-127-2021/0	Pass, Harvey I	ALECTOR, LLC	11-Mar-22	

L-021-2022/0	Bonomi, Carrie A.	(b) (4)	Chimeron Bio	11-Mar-22
L-021-2022/0	Borgel, Suzanne D.	(b) (6)	Chimeron Bio	11-Mar-22
L-021-2022/0	Dougherty, Kelly		Chimeron Bio	11-Mar-22
L-021-2022/0	Hollingshead, Melinda G.		Chimeron Bio	11-Mar-22
L-267-2020/0	Gazdar, (b) (6) Adi		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-267-2020/0	Johnson, Bruce E		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-267-2020/0	Kaye, Frederic J		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-267-2020/0	Khleif, Samir N.		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-267-2020/0	Minna, John D.		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-267-2020/0	Oie, (b) (6) Herbert K		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-267-2020/0	Pass, Harvey I		Boehringer Ingelheim RCV GmbH & Co KG	14-Mar-22
L-041-2022/0	Gazdar, (b) (6) Adi		Circle Pharma, Inc.	14-Mar-22
L-041-2022/0	Johnson, Bruce E		Circle Pharma, Inc.	14-Mar-22
L-041-2022/0	Kaye, Frederic J		Circle Pharma, Inc.	14-Mar-22
L-041-2022/0	Khleif, Samir N.		Circle Pharma, Inc.	14-Mar-22
L-041-2022/0	Minna, John D.		Circle Pharma, Inc.	14-Mar-22
L-041-2022/0	Oie, (b) (6) Herbert K		Circle Pharma, Inc.	14-Mar-22
L-041-2022/0	Pass, Harvey I		Circle Pharma, Inc.	14-Mar-22
L-086-2012/2	Ambrose, Zandra		Merck Sharp & Dohme Corp.	15-Mar-22
L-086-2012/2	Kewalramani, Vineet N		Merck Sharp & Dohme Corp.	15-Mar-22
L-084-2018/1	Beyer, Rachel K. B.		Warp Drive Bio, LLC	15-Mar-22
L-084-2018/1	(b) (4)		Warp Drive Bio, LLC	15-Mar-22
L-084-2018/1	Holderfield, Matthew T.		Warp Drive Bio, LLC	15-Mar-22
L-084-2018/1	Soppet, Dan		Warp Drive Bio, LLC	15-Mar-22
L-003-2022/0	Bonomi, Carrie A.		FibroGen, Inc.	15-Mar-22
L-003-2022/0	Borgel, Suzanne D.		FibroGen, Inc.	15-Mar-22
L-003-2022/0	Dougherty, Kelly		FibroGen, Inc.	15-Mar-22
L-003-2022/0	Hollingshead, Melinda G.		FibroGen, Inc.	15-Mar-22
L-041-2022/0	Gazdar, (b) (6) Adi		Circle Pharma, Inc.	15-Mar-22
L-041-2022/0	Johnson, Bruce E		Circle Pharma, Inc.	15-Mar-22
L-041-2022/0	Kaye, Frederic J		Circle Pharma, Inc.	15-Mar-22
L-041-2022/0	Khleif, Samir N.		Circle Pharma, Inc.	15-Mar-22
L-041-2022/0	Minna, John D.		Circle Pharma, Inc.	15-Mar-22
L-041-2022/0	Oie, (b) (6) Herbert K		Circle Pharma, Inc.	15-Mar-22
L-041-2022/0	Pass, Harvey I		Circle Pharma, Inc.	15-Mar-22
L-083-2022/0	Bonomi, Carrie A.		Corner Therapeutics	15-Mar-22
L-083-2022/0	Borgel, Suzanne D.		Corner Therapeutics	15-Mar-22
L-083-2022/0	Dougherty, Kelly		Corner Therapeutics	15-Mar-22
L-083-2022/0	Hollingshead, Melinda G.		Corner Therapeutics	15-Mar-22
L-192-2015/2	Burgess, Rebecca C.		KeraFAST	16-Mar-22
L-192-2015/2	Misteli, Thomas		KeraFAST	16-Mar-22
L-192-2015/2	Roukos, Vasileios		KeraFAST	16-Mar-22
L-192-2015/2	Soutoglou, Evi		KeraFAST	16-Mar-22
L-226-2015/3	Hodge, James W.		KeraFAST	16-Mar-22
L-226-2015/3	Schlom, Jeffrey		KeraFAST	16-Mar-22
L-272-2016/0	Bonomi, Carrie A.		KeraFAST	16-Mar-22
L-272-2016/0	Borgel, Suzanne D.		KeraFAST	16-Mar-22
L-272-2016/0	Dougherty, Kelly		KeraFAST	16-Mar-22

L-272-2016/0	Hollingshead, Melinda G.	(b) (4), KeraFAST (b) (6)	16-Mar-22
L-052-2017/0	Jeffers, Michael	KeraFAST	16-Mar-22
L-052-2017/0	Nakaigawa, Noboru	KeraFAST	16-Mar-22
L-052-2017/0	Schmidt, Laura S.	KeraFAST	16-Mar-22
L-052-2017/0	Vande Woude, George	KeraFAST	16-Mar-22
L-052-2017/0	Zbar, Berton	KeraFAST	16-Mar-22
L-054-2017/0	Barrett, James Carl	KeraFAST	16-Mar-22
L-054-2017/0	Custer, Mary	KeraFAST	16-Mar-22
L-054-2017/0	Risinger, John	KeraFAST	16-Mar-22
L-263-2017/1	(b) (4)	KeraFAST	16-Mar-22
L-263-2017/1	Esposito, Dominic	KeraFAST	16-Mar-22
L-263-2017/1	Hopkins, Ralph F.	KeraFAST	16-Mar-22
L-263-2017/1	Roberts, Veronica Ann	KeraFAST	16-Mar-22
L-119-2018/0	Reynolds, Della Anne	KeraFAST	16-Mar-22
L-119-2018/0	Young, Howard A.	KeraFAST	16-Mar-22
L-075-2016/1	NCI	Lentigen Technology, Inc.	17-Mar-22
L-075-2016/1	Fry, Terry	(b) (4), Lentigen Technology, Inc.	17-Mar-22
L-075-2016/1	Qin, Haiying	(b) (6), Lentigen Technology, Inc.	17-Mar-22
L-279-2017/1	Bonomi, Carrie A.	Oncodesign Biotechnology	17-Mar-22
L-279-2017/1	Borgel, Suzanne D.	Oncodesign Biotechnology	17-Mar-22
L-279-2017/1	Dougherty, Kelly	Oncodesign Biotechnology	17-Mar-22
L-279-2017/1	Hollingshead, Melinda G.	Oncodesign Biotechnology	17-Mar-22
L-013-2019/0	Dimitrov, Dimiter S.	Lentigen Corporation	17-Mar-22
L-013-2019/0	Zhu, Zhongyu	Lentigen Corporation	17-Mar-22
L-053-2021/0	NCI	GLG Pharma, LLC	17-Mar-22
L-053-2021/0	NCI	GLG Pharma, LLC	17-Mar-22
L-053-2021/0	NCI	GLG Pharma, LLC	17-Mar-22
L-053-2021/0	NCI	GLG Pharma, LLC	17-Mar-22
L-076-2022/0	Adhya, Sankar Lal	(b) Gentronix Ltd.	17-Mar-22
L-076-2022/0	Garges, Susan	(4), Gentronix Ltd.	17-Mar-22
L-076-2022/0	Jakubczak, John L.	(b) (6) Gentronix Ltd.	17-Mar-22
L-076-2022/0	Merlino, Glenn T.	Gentronix Ltd.	17-Mar-22
L-076-2022/0	Adhya, Sankar Lal	Gentronix Ltd.	17-Mar-22
L-076-2022/0	Garges, Susan	Gentronix Ltd.	17-Mar-22
L-076-2022/0	Jakubczak, John L.	Gentronix Ltd.	17-Mar-22
L-076-2022/0	Merlino, Glenn T.	Gentronix Ltd.	17-Mar-22
L-010-2021/0	Bonomi, Carrie A.	Vir Biotechnology, Inc.	18-Mar-22
L-010-2021/0	Borgel, Suzanne D.	Vir Biotechnology, Inc.	18-Mar-22
L-010-2021/0	Dougherty, Kelly	Vir Biotechnology, Inc.	18-Mar-22
L-010-2021/0	Hollingshead, Melinda G.	Vir Biotechnology, Inc.	18-Mar-22
L-129-2021/0	Bonomi, Carrie A.	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Borgel, Suzanne D.	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Buck, Christopher	Crown Bioscience Inc.	18-Mar-22

(b) (3) (A), (b) (4), (b) (6)

L-129-2021/0	Dougherty, Kelly	(b) (4), Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Gazdar, (b) (6) Adi	(b) (6) Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Hamilton, Thomas C	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Hollingshead, Melinda G.	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Johnson, Bruce E	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Kaye, Frederic J	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Khleif, Samir N.	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Minna, John D.	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Oie, (b) (6) Herbert K	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Ozols, Robert F	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Pass, Harvey I	Crown Bioscience Inc.	18-Mar-22
L-129-2021/0	Schiller, John T	Crown Bioscience Inc.	18-Mar-22
L-245-1994/1	Popovic, Mikulas	SearCare Life Sciences	21-Mar-22
L-245-1994/1	Sargadharan, Mangalasseril	SearCare Life Sciences	21-Mar-22
<i>Note: L-245-1994/1 split between NCI; NIAID</i>			
L-161-2004/1	(b) (4)	SeraCare Life Sciences, Inc.	21-Mar-22
L-161-2004/1	Popovic, Mikulas	SeraCare Life Sciences, Inc.	21-Mar-22
L-161-2004/1	Sargadharan, Mangalasseril	SeraCare Life Sciences, Inc.	21-Mar-22
L-066-2015/1	NCI	Genentech., Inc.	21-Mar-22
L-161-2019/0	Gazdar, (b) (6) Adi	(b) (4), SearCare Life Sciences	21-Mar-22
L-161-2019/0	Johnson, Bruce E	(b) (6) SearCare Life Sciences	21-Mar-22
L-161-2019/0	Kaye, Frederic J	SearCare Life Sciences	21-Mar-22
L-161-2019/0	Khleif, Samir N.	SearCare Life Sciences	21-Mar-22
L-161-2019/0	Minna, John D.	SearCare Life Sciences	21-Mar-22
L-161-2019/0	Oie, (b) (6) Herbert K	SearCare Life Sciences	21-Mar-22
L-161-2019/0	Pass, Harvey I	SearCare Life Sciences	21-Mar-22
L-289-2019/0	Bonomi, Carrie A.	Alkermes	21-Mar-22
L-289-2019/0	Dougherty, Kelly	Alkermes	21-Mar-22
L-289-2019/0	Hollingshead, Melinda G.	Alkermes	21-Mar-22
L-043-2022/0	Luciano, Michael	OnLume Inc.	21-Mar-22
L-043-2022/0	Nani, Roger R.	OnLume Inc.	21-Mar-22
L-043-2022/0	Schnermann, Martin	OnLume Inc.	21-Mar-22
L-113-2007/1	Aaronson, Stuart A.	Ventana Medical Systems	22-Mar-22
L-113-2007/1	King, Charles R.	Ventana Medical Systems	22-Mar-22
L-113-2007/1	Kraus, (b) (6) Matthias	Ventana Medical Systems	22-Mar-22
L-080-2021/0	Hinrichs, Christian S.	Rubius Therapeutics, Inc	22-Mar-22
L-096-2021/0	Bonomi, Carrie A.	Cancer Research Technology Limited (Ximb	22-Mar-22
L-096-2021/0	Borgel, Suzanne D.	Cancer Research Technology Limited (Ximb	22-Mar-22
L-096-2021/0	Dougherty, Kelly	Cancer Research Technology Limited (Ximb	22-Mar-22
L-096-2021/0	Hollingshead, Melinda G.	Cancer Research Technology Limited (Ximb	22-Mar-22
L-002-2022/0	Gazdar, (b) (6) Adi	Rubius Therapeutics, Inc.	22-Mar-22
L-002-2022/0	Johnson, Bruce E	Rubius Therapeutics, Inc.	22-Mar-22
L-002-2022/0	Kaye, Frederic J	Rubius Therapeutics, Inc.	22-Mar-22
L-002-2022/0	Khleif, Samir N.	Rubius Therapeutics, Inc.	22-Mar-22
L-002-2022/0	Minna, John D.	Rubius Therapeutics, Inc.	22-Mar-22
L-002-2022/0	Oie, (b) (6) Herbert K	Rubius Therapeutics, Inc.	22-Mar-22
L-002-2022/0	Pass, Harvey I	Rubius Therapeutics, Inc.	22-Mar-22
L-006-2018/0	Austin, Faye C.	Diagnostic BioSystems	23-Mar-22

L-006-2018/0	Colcher, David	(b) (4)	Diagnostic BioSystems	23-Mar-22	(b) (3) (A), (b) (4), (b) (6)
L-006-2018/0	Hand, Patricia H.	(b) (6)	Diagnostic BioSystems	23-Mar-22	
L-006-2018/0	Nuti, Marianna		Diagnostic BioSystems	23-Mar-22	
L-006-2018/0	Schlom, Jeffrey		Diagnostic BioSystems	23-Mar-22	
L-215-2021/0	Gazdar, (b) (6) Adi		Aragen Life Sciences Private Limited	23-Mar-22	
L-215-2021/0	Johnson, Bruce E		Aragen Life Sciences Private Limited	23-Mar-22	
L-215-2021/0	Kaye, Frederic J		Aragen Life Sciences Private Limited	23-Mar-22	
L-215-2021/0	Khleif, Samir N.		Aragen Life Sciences Private Limited	23-Mar-22	
L-215-2021/0	Minna, John D.		Aragen Life Sciences Private Limited	23-Mar-22	
L-215-2021/0	Oie (b) (6) Herbert K		Aragen Life Sciences Private Limited	23-Mar-22	
L-215-2021/0	Pass, Harvey I		Aragen Life Sciences Private Limited	23-Mar-22	
L-239-2016/1	Bonomi, Carrie A.		Alkermes, Inc.	24-Mar-22	
L-239-2016/1	Borgel, Suzanne D.		Alkermes, Inc.	24-Mar-22	
L-239-2016/1	Dougherty, Kelly		Alkermes, Inc.	24-Mar-22	
L-239-2016/1	Hollingshead, Melinda G.		Alkermes, Inc.	24-Mar-22	
L-159-2020/0	Bonomi, Carrie A.		Ascendis Pharma A/S	24-Mar-22	
L-159-2020/0	Borgel, Suzanne D.		Ascendis Pharma A/S	24-Mar-22	
L-159-2020/0	Dougherty, Kelly		Ascendis Pharma A/S	24-Mar-22	
L-159-2020/0	Hollingshead, Melinda G.		Ascendis Pharma A/S	24-Mar-22	
L-055-2021/0	Aloia, Amanda		Monogram Biosciences	24-Mar-22	
L-055-2021/0	Rein, Alan		Monogram Biosciences	24-Mar-22	
L-226-2015/3	Hodge, James W.		KeraFAST	25-Mar-22	
L-226-2015/3	Schlom, Jeffrey		KeraFAST	25-Mar-22	
L-121-2019/0	Gottesman, Michael M.		Axcelead Drug Discovery Partners, Inc	25-Mar-22	
L-121-2019/0	Pastan, Ira H		Axcelead Drug Discovery Partners, Inc	25-Mar-22	
L-121-2019/0	Ueda, Kazumitsu		Axcelead Drug Discovery Partners, Inc	25-Mar-22	
L-152-2020/1	Felber, Barbara K.		Cidara Therapeutics, Inc.	25-Mar-22	
L-152-2020/1	Pavlakis, George N		Cidara Therapeutics, Inc.	25-Mar-22	
L-081-2022/0	Bonomi, Carrie A.		GI Innovation, Inc.	25-Mar-22	
L-081-2022/0	Dougherty, Kelly		GI Innovation, Inc.	25-Mar-22	
L-081-2022/0	Hollingshead, Melinda G.		GI Innovation, Inc.	25-Mar-22	
L-094-2022/0	Bonomi, Carrie A.		Nuanced Health, Inc.	25-Mar-22	
L-094-2022/0	Borgel, Suzanne D.		Nuanced Health, Inc.	25-Mar-22	
L-094-2022/0	Dougherty, Kelly		Nuanced Health, Inc.	25-Mar-22	
L-094-2022/0	Hollingshead, Melinda G.		Nuanced Health, Inc.	25-Mar-22	
L-028-2018/1	NCI		Scanned LLC	28-Mar-22	
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>					
L-080-1993/3	Hathcock, Karen	(b) (4)	BD Biosciences - BD PharMingen, Inc.	29-Mar-22	
L-080-1993/3	Hodes, Richard J	(b) (6)	BD Biosciences - BD PharMingen, Inc.	29-Mar-22	
L-080-1993/3	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	29-Mar-22	
L-187-1995/2	Yoshimura, Teizo		BD BIOSCIENCES	29-Mar-22	
L-119-2019/0	Esposito, Dominic		Quanta Therapeutics, Inc., University of	29-Mar-22	
L-119-2019/0	Gillette, William K.		Quanta Therapeutics, Inc., University of	29-Mar-22	
L-119-2019/0	Grose, Carissa L.		Quanta Therapeutics, Inc., University of	29-Mar-22	
L-138-2019/1	Beyer, Rachel K. B.		Quanta Therapeutics, Inc., University of	29-Mar-22	

L-138-2019/1 (b) (4)
L-138-2019/1 Holderfield, Matthew T.
L-138-2019/1 Soppet, Dan

L-161-2020/0 Aaronson, Stuart A.
L-161-2020/0 Ellmore, Nelson

L-087-2022/0 Aaronson, Stuart A.
L-087-2022/0 (b) (6) Donald J. Giard
L-087-2022/0 Parks, Wade P.

L-087-2022/0 Aaronson, Stuart A.
L-087-2022/0 (b) (6) Donald J. Giard
L-087-2022/0 Parks, Wade P.

(b) (4),
(b) (6) Quanta Therapeutics, Inc., University of
Quanta Therapeutics, Inc., University of
Quanta Therapeutics, Inc., University of
Cancer Research Technology Limited (Ximb
Cancer Research Technology Limited (Ximb
mugene Limited,
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(b) (3) (A), (b) (4), (b) (6)

\$29,769,115.32 \$1,103,587.14 \$30,872,702.46 \$5,296,744.71 \$25,575,957.75

NIH Patent Licensing Activities
NEI
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total October	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-152-2021/0	NEI		VegaVect, Inc.	14-Oct-21						(b) (3) (A), (b) (4)

Note: L-152-2021/0 split between NEI; NIDCD

NIH Patent Licensing Activities
NEI
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total November	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-152-2021/0	Colosi, Peter C.	(b) (4)	VegaVect, Inc.	12-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-152-2021/0	Wei, Lisa Lining	(b) (6)	VegaVect, Inc.	12-Nov-21						
L-152-2021/0	Wiley, Henry Ernest		VegaVect, Inc.	12-Nov-21						
Note: L-152-2021/0 split between NEI; NIDCD										
L-139-2020/0	Chen, Yu Holly		EditForce, Inc.	19-Nov-21						
L-139-2020/0	English, Milton A		EditForce, Inc.	19-Nov-21						
L-139-2020/0	Shimada-Ishill, Hiroko		EditForce, Inc.	19-Nov-21						
L-139-2020/0	Swaroop, Anand		EditForce, Inc.	19-Nov-21						

NIH Patent Licensing Activities
NEI
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total December	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-187-2020/0	Bharti, Kapil	(b) (4)	Regeneron Pharmaceuticals, Inc.	13-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-187-2020/0	Ruchi, Fnu	(b) (6)	Regeneron Pharmaceuticals, Inc.	13-Dec-21						

NIH Patent Licensing Activities
NEI
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total January	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-168-2015/1	Li, Tiansen	(b) (4)	Millipore Sigma	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-168-2015/1	Swaroop, Anand	(b) (6)	Millipore Sigma	4-Jan-22						

NIH Patent Licensing Activities
NEI
February 2022

License	Inventor	Inventor Share %	Inventor Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total February	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income	February	IC
L-237-2021/0	Bush, Ronald Avery	(b) (4)	VegaVect, Inc.	10-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-237-2021/0	Colosi, Peter C.	(b) (6)	VegaVect, Inc.	10-Feb-22						
L-237-2021/0	Sieving, Paul Albert		VegaVect, Inc.	10-Feb-22						
L-237-2021/0	Zeng, Yong		VegaVect, Inc.	10-Feb-22						
L-162-2021/0	Gentleman, Susan B.		Frontera Therapeutics, Inc.	17-Feb-22						
L-162-2021/0	Redmond, Thomas M.		Frontera Therapeutics, Inc.	17-Feb-22						
L-168-2015/1	Li, Tiansen		Millipore Sigma	22-Feb-22						
L-168-2015/1	Swaroop, Anand		Millipore Sigma	22-Feb-22						

NIH Patent Licensing Activities
NEI
March 2022

License	Inventor	Inventor Share %	Inventor Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total March	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income	March	IC
L-230-2002/1	Bunce, George E.	(b) (4)	Bausch & Lomb	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-230-2002/1	Ferris III, Frederick L.	(b) (6)	Bausch & Lomb	1-Mar-22						
L-230-2002/1	Kinoshita, (b) (6) Jin H		Bausch & Lomb	1-Mar-22						
L-230-2002/1	Smith, James Cecil		Bausch & Lomb	1-Mar-22						
L-050-2021/0	Amaral, Juan A		CellRay, LLC	4-Mar-22						
L-050-2021/0	Bharti, Kapil		CellRay, LLC	4-Mar-22						
L-050-2021/0	Charles, Steven Thomas		CellRay, LLC	4-Mar-22						
L-050-2021/0	Davis, (b) (6) Janine A		CellRay, LLC	4-Mar-22						
L-050-2021/0	Hotaling, Nathan		CellRay, LLC	4-Mar-22						
L-050-2021/0	Khristov, Vladimir R.		CellRay, LLC	4-Mar-22						
L-050-2021/0	Maminishkis, Arvydas		CellRay, LLC	4-Mar-22						
L-050-2021/0	NIST		CellRay, LLC	4-Mar-22						
<i>Note: L-050-2021/0 split between NEI; NINDS</i>										
L-088-2021/0	NEI		Connectyx Technologies Holdings Group	11-Mar-22						
L-152-2021/0	Colosi, Peter C.	(b) (4)	VegaVect, Inc.	29-Mar-22						
L-152-2021/0	Wei, Lisa Lining	(4)	VegaVect, Inc.	29-Mar-22						
L-152-2021/0	Wiley, Henry Ernest	(b) (6)	VegaVect, Inc.	29-Mar-22						
<i>Note: L-152-2021/0 split between NEI; NIDCD</i>										
L-020-2021/0	Amaral, Juan A		Opsis Therapeutics, LLC	30-Mar-22						
L-020-2021/0	Bharti, Kapil		Opsis Therapeutics, LLC	30-Mar-22						
L-020-2021/0	Charles, Steven Thomas		Opsis Therapeutics, LLC	30-Mar-22						
L-020-2021/0	Hotaling, Nathan		Opsis Therapeutics, LLC	30-Mar-22						
L-020-2021/0	Khristov, Vladimir R.		Opsis Therapeutics, LLC	30-Mar-22						
L-020-2021/0	Maminishkis, Arvydas		Opsis Therapeutics, LLC	30-Mar-22						
L-020-2021/0	National Inst. of Standards and Tech.		Opsis Therapeutics, LLC	30-Mar-22						
					\$5,942,850.53	\$42,500.30	\$5,985,350.83		\$995,939.92	\$4,989,410.91

NIH Patent Licensing Activities
NHGRI
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-216-2017/0	NHGRI		Select a Biosciences, Inc.	8-Oct-21						(b) (3) (A), (b) (4)
L-216-2017/0	NHGRI		Select a Biosciences, Inc.	8-Oct-21						

NIH Patent Licensing Activities
NHGRI
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-067-2020/0	Chandler, Randy J.	(b) (4)	Asklepios Biopharmaceuticals, Inc.	4-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-067-2020/0	Manoli, Eirini	(b) (6)	Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-067-2020/0	Venditti, Charles P.		Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-068-2020/0	Chandler, Randy J.		Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-068-2020/0	Manoli, Eirini		Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-068-2020/0	Venditti, Charles P.		Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-114-2021/0	Manoli, Eirini		Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-114-2021/0	Venditti, Charles P.		Asklepios Biopharmaceuticals, Inc.	4-Nov-21						
L-006-2021/0	Mijares, Lilia A.		Federation Bio	9-Nov-21						
L-006-2021/0	Segre, Julia A.		Federation Bio	9-Nov-21						
<i>Note: L-006-2021/0 split between NHGRI; NIAMS</i>										
L-183-2014/0	Gispert-Sanchez, Suzana	(b) (4)	UCSF	26-Nov-21						
L-183-2014/0	Nussbaum, Robert L.	(b) (6)	UCSF	26-Nov-21						
L-055-2015/1	Goldin, Ehud M.		Bial-BioTech Investments, Inc.	26-Nov-21						
L-055-2015/1	Motabar, Omid		Bial-BioTech Investments, Inc.	26-Nov-21						
L-055-2015/1	Sidransky, Ellen		Bial-BioTech Investments, Inc.	26-Nov-21						
L-055-2015/1	Westbroek, Wendy		Bial-BioTech Investments, Inc.	26-Nov-21						
<i>Note: L-055-2015/1 split between NCATS; NHGRI</i>										
L-167-2019/0	Chandler, Randy J.	(b) (4)	Agios Pharmaceuticals, Inc	26-Nov-21						
L-167-2019/0	Manoli, Eirini	(b) (6)	Agios Pharmaceuticals, Inc	26-Nov-21						
L-167-2019/0	Venditti, Charles P.		Agios Pharmaceuticals, Inc	26-Nov-21						

NIH Patent Licensing Activities
NHGRI
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-186-2016/0	Chandler, Randy J.	(b) (4)	Galyatech LLC	22-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-186-2016/0	Pavan, William J	(b) (6)	Galyatech LLC	22-Dec-21						
L-186-2016/0	Venditti, Charles P.		Galyatech LLC	22-Dec-21						
L-017-2021/0	Chandler, Randy J.		Genespire	23-Dec-21						
L-017-2021/0	Manoli, Eirini		Genespire	23-Dec-21						
L-017-2021/0	Venditti, Charles P.		Genespire	23-Dec-21						
L-216-2018/0	Chandler, Randy J.		StrideBio	30-Dec-21						
L-216-2018/0	Pavan, William J		StrideBio	30-Dec-21						
L-216-2018/0	Venditti, Charles P.		StrideBio	30-Dec-21						
L-084-2021/0	Chandler, Randy J.		Selecta Biosciences, Inc.	30-Dec-21						
L-084-2021/0	Manoli, Eirini		Selecta Biosciences, Inc.	30-Dec-21						
L-084-2021/0	Venditti, Charles P.		Selecta Biosciences, Inc.	30-Dec-21						
L-084-2021/0	Chandler, Randy J.		Selecta Biosciences, Inc.	30-Dec-21						
L-084-2021/0	Manoli, Eirini		Selecta Biosciences, Inc.	30-Dec-21						
L-084-2021/0	Venditti, Charles P.		Selecta Biosciences, Inc.	30-Dec-21						
L-196-2021/0	Manoli, Eirini		Selecta Biosciences Inc.	30-Dec-21						
L-196-2021/0	Venditti, Charles P.		Selecta Biosciences Inc.	30-Dec-21						
L-197-2021/0	Manoli, Eirini		Selecta Biosciences Inc.	30-Dec-21						
L-197-2021/0	Venditti, Charles P.		Selecta Biosciences Inc.	30-Dec-21						

NIH Patent Licensing Activities

NHGRI

January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-002-2021/0	Nicoli, Elena-Raluca	(b) (4)	GT Gain Therapeutics	5-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-002-2021/0	Tiftt, Cynthia J.	(b) (6)	GT Gain Therapeutics	5-Jan-22						
L-057-2015/0	NHGRI		MANDOS, LLC	21-Jan-22						

Note: L-057-2015/0 split between NCATS; NHGRI

NIH Patent Licensing Activities

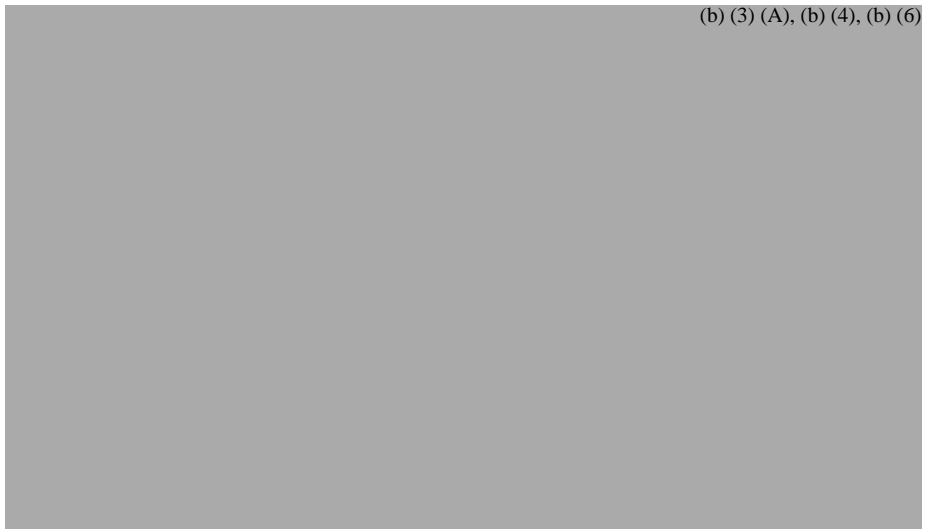
NHGRI

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-146-2018/2	Gahl, William A.	(b) (4)	Leadiant Biosciences	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-146-2018/2	Huizing, Marjan	(b) (6)	Leadiant Biosciences	1-Feb-22						

L-146-2018/2	Klootwijk, Enriko D.	(b) (4), Leadiant Biosciences	1-Feb-22
L-146-2018/2	Manoli, Eirini	(b) (6) Leadiant Biosciences	1-Feb-22
L-031-2022/0	Biesecker, Leslie G.	Invitae Corporation	9-Feb-22
L-031-2022/0	Lindhurst, Marjorie J.	Invitae Corporation	9-Feb-22
L-069-2019/0	Chandler, Randy J.	LogicBio Therapeutics, Inc.	15-Feb-22
L-069-2019/0	Venditti, Charles P.	LogicBio Therapeutics, Inc.	15-Feb-22
L-091-2021/0	Chandler, Randy J.	LogicBio Therapeutics, Inc	15-Feb-22
L-091-2021/0	Smith, Stephanie N.	LogicBio Therapeutics, Inc	15-Feb-22
L-091-2021/0	Venditti, Charles P.	LogicBio Therapeutics, Inc	15-Feb-22
L-054-2022/0	Chandler, Randy J.	Chameleon Biosciences, Inc.	15-Feb-22
L-054-2022/0	Pavan, William J	Chameleon Biosciences, Inc.	15-Feb-22
L-054-2022/0	Venditti, Charles P.	Chameleon Biosciences, Inc.	15-Feb-22
L-116-2013/0	NHGRI	EMD Millipore Corp.	22-Feb-22

Note: L-116-2013/0 split between NCATS; NHGRI



NIH Patent Licensing Activities
NHGRI
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
					\$472,381.91	\$8,486.72	\$480,868.63		\$111,258.26	\$369,610.37

NIH Patent Licensing Activities
NHLBI
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total October	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-077-2004/5	Ding, Chuan-Tian	(b) (4)	Boeringer Ingelheim Pharma	7-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-077-2004/5	Kotin, Robert M.	(b) (6)	Boeringer Ingelheim Pharma	7-Oct-21						
L-077-2004/5	Smith, Richard H.		Boeringer Ingelheim Pharma	7-Oct-21						
L-077-2004/5	Urabe, Masashi		Boeringer Ingelheim Pharma	7-Oct-21						
L-098-2018/3	NHLBI		T-Cure Bioscience	12-Oct-21						

NIH Patent Licensing Activities
NHLBI
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total November	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-127-2015/0	Leonard, Warren J.	(b) (4)	Stanford University Medical Center	18-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-127-2015/0	Mitra, Suman	(b) (6)	Stanford University Medical Center	18-Nov-21						

NIH Patent Licensing Activities
NHLBI
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total December	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-327-2014/0	Ding, Chuan-Tian	(b) (4)	Voyager Therapeutics	3-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-327-2014/0	Kotin, Robert M.	(b) (6)	Voyager Therapeutics	3-Dec-21						
L-327-2014/0	Smith, Richard H.		Voyager Therapeutics	3-Dec-21						
L-327-2014/0	Urabe, Masashi		Voyager Therapeutics	3-Dec-21						
L-243-2016/0	Boehm, Manfred		StemCell Technologies Inc.	13-Dec-21						
L-243-2016/0	Chen, Guibin		StemCell Technologies Inc.	13-Dec-21						
L-243-2016/0	Larochelle, Andre		StemCell Technologies Inc.	13-Dec-21						
<i>Note: L-243-2016/0 split between NHLBI; NIAMS</i>										
L-107-2007/3	Ding, Chuan-Tian		UniQure B.V.	17-Dec-21						
L-107-2007/3	Kotin, Robert M.		UniQure B.V.	17-Dec-21						
L-107-2007/3	Urabe, Masashi		UniQure B.V.	17-Dec-21						
L-010-2014/0	Cecchini, Sylvain		Life Technology Corp. (BAC BV)	21-Dec-21						
L-010-2014/0	Kotin, Robert M.		Life Technology Corp. (BAC BV)	21-Dec-21						
L-010-2014/0	Smith, Richard H.		Life Technology Corp. (BAC BV)	21-Dec-21						
L-144-2021/0	Liu, Chengyu		Morphiex Biotherapeutics	23-Dec-21						
<i>Note: L-144-2021/0 split between NCI; NHLBI</i>										
L-120-2012/2	Ding, Chuan-Tian		Sangamo Biosciences	24-Dec-21						

L-120-2012/2	Kotin, Robert M.	(b) (4), Sangamo Biosciences	24-Dec-21	(b) (3) (A), (b) (4), (b) (6)
L-120-2012/2	Urabe, Masashi	(b) (6) Sangamo Biosciences	24-Dec-21	
L-264-2018/0	Arai, Andrew Ernest	Circle Cardiovascular Imaging Inc.	24-Dec-21	
L-264-2018/0	Hsu, Li - Yueh	Circle Cardiovascular Imaging Inc.	24-Dec-21	
L-264-2018/0	Jacobs, Matthew James	Circle Cardiovascular Imaging Inc.	24-Dec-21	
L-098-2018/3	Cherkasova, Elena A.	T-Cure Bioscience	27-Dec-21	
L-098-2018/3	Childs, Richard W.	T-Cure Bioscience	27-Dec-21	
L-098-2018/3	(b) (4)	T-Cure Bioscience	27-Dec-21	
L-246-2014/2	Nirenberg, (b) (6) Marshall	BIOLEGEND	29-Dec-21	
L-246-2014/2	Walsh, Frank	BIOLEGEND	29-Dec-21	

Note: L-246-2014/2 split between NHLBI; NIAID

NIH Patent Licensing Activities
NHLBI
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-029-2012/0	Derbyshire, John Andrew	(b) (4)	Koninklijke Philips Electronics NV	1-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-029-2012/0	(b) (4)	(b) (6)	Koninklijke Philips Electronics NV	1-Jan-22						
L-029-2012/0	McVeigh, Elliott R		Koninklijke Philips Electronics NV	1-Jan-22						
L-029-2012/0	Nezafat, Reza		Koninklijke Philips Electronics NV	1-Jan-22						
L-259-2002/0	Nirenberg, (b) (6) Marshall		R & D Systems, Inc.	3-Jan-22						
L-259-2002/0	Walsh, Frank		R & D Systems, Inc.	3-Jan-22						
Note: L-259-2002/0 split between NHLBI; NIAID										
L-105-2012/0	Ding, Chuan-Tian		Genethon	6-Jan-22						
L-105-2012/0	Kotin, Robert M.		Genethon	6-Jan-22						
L-105-2012/0	Urabe, Masashi		Genethon	6-Jan-22						
L-125-2012/0	Nirenberg, (b) (6) Marshall		BD Biosciences	6-Jan-22						
L-125-2012/0	Walsh, Frank		BD Biosciences	6-Jan-22						
Note: L-125-2012/0 split between NHLBI; NIAID										
L-158-2017/0	NHLBI		Mokobio Life Science Group, Inc.	11-Jan-22						
Note: L-158-2017/0 split between NCI; NHLBI										
L-158-2017/0	Yang, Yanqin	(b) (4)	Mokobio Life Science Group, Inc.	11-Jan-22						
L-158-2017/0	Zhu, Jun	(b) (6)	Mokobio Life Science Group, Inc.	11-Jan-22						
Note: L-158-2017/0 split between NCI; NHLBI										
L-158-2017/0	NHLBI		Mokobio Life Science Group, Inc.	11-Jan-22						
Note: L-158-2017/0 split between NCI; NHLBI										
L-106-2020/0	Finkel, Toren	(b) (4), (b) (6)	H. Lundbeck A/S	11-Jan-22						
L-209-2017/0	NHLBI		General Electric Co.	12-Jan-22						
L-063-2015/0	Ding, Chuan-Tian	(b) (4), (b) (6)	BioMarin Pharma.	13-Jan-22						

L-063-2015/0	Kotin, Robert M.	(b) (4)	BioMarin Pharma.	13-Jan-22	(b) (3) (A), (b) (4), (b) (6)	
L-063-2015/0	Urabe, Masashi	(b) (6)	BioMarin Pharma.	13-Jan-22		
L-104-2018/0	Ding, Chuan-Tian		LakePharma	17-Jan-22		
L-104-2018/0	Kotin, Robert M.		LakePharma	17-Jan-22		
L-104-2018/0	Urabe, Masashi		LakePharma	17-Jan-22		
L-143-2007/2	Cannon, Richard O.		Hope Pharmaceuticals	18-Jan-22		
<i>Note: L-143-2007/2 split between CC; NHLBI; NIDDK</i>						
L-159-2007/2	Cannon, Richard O.		Hope Pharmaceuticals	18-Jan-22		
L-159-2007/2	Gladwin, Mark T.		Hope Pharmaceuticals	18-Jan-22		
L-159-2007/2	Hunter, Christian J		Hope Pharmaceuticals	18-Jan-22		
L-159-2007/2	(b) (4)		Hope Pharmaceuticals	18-Jan-22		
L-159-2007/2			Hope Pharmaceuticals	18-Jan-22		
L-159-2007/2			Hope Pharmaceuticals	18-Jan-22		
L-159-2007/2			Hope Pharmaceuticals	18-Jan-22		
<i>Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS</i>						
L-032-2022/0	Childs, Richard W.	(b) (4)	Zelluna Immunotherapy AS	19-Jan-22		
L-032-2022/0	Igarashi, Takehito	(b) (6)	Zelluna Immunotherapy AS	19-Jan-22		
L-032-2022/0	Wynberg, Jason		Zelluna Immunotherapy AS	19-Jan-22		
L-158-2017/0	Yang, Yanqin		Mokobio Life Science Group, Inc.	21-Jan-22		
L-158-2017/0	Zhu, Jun		Mokobio Life Science Group, Inc.	21-Jan-22		
<i>Note: L-158-2017/0 split between NCI; NHLBI</i>						
L-198-2021/0	Fitzhugh, Courtney		Graphite Bio, Inc.	31-Jan-22		
L-198-2021/0	Hsieh, Matthew M.		Graphite Bio, Inc.	31-Jan-22		
L-198-2021/0	Leonard, Alexis		Graphite Bio, Inc.	31-Jan-22		
L-198-2021/0	Tisdale, John		Graphite Bio, Inc.	31-Jan-22		

NIH Patent Licensing Activities
NHLBI
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-124-2017/1	(b) (4)	(b) (4)	Generation Bio Co	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-124-2017/1	Kotin, Robert M.	(b) (6)	Generation Bio Co	1-Feb-22						
L-124-2017/1	Li, Lina		Generation Bio Co	1-Feb-22						
L-234-2018/0	Kotin, Robert M.		Generation Bio	1-Feb-22						
L-234-2018/0	Li, Lina		Generation Bio	1-Feb-22						
L-097-2008/4	Knepper, Mark A		Novus Biologicals, LLC	8-Feb-22						
L-209-2017/0	Derbyshire, John Andrew		General Electric Co.	9-Feb-22						
L-209-2017/0	(b) (4)		General Electric Co.	9-Feb-22						
L-209-2017/0	McVeigh, Elliott R		General Electric Co.	9-Feb-22						
L-209-2017/0	Nezafat, Reza		General Electric Co.	9-Feb-22						
L-145-2019/0	Cannon, Richard O.		Globin Solutions, Inc	10-Feb-22						

L-145-2019/0	Gladwin, Mark T.	(b) (4)	Globin Solutions, Inc	10-Feb-22
L-145-2019/0	Hunter, Christian J	(b) (6)	Globin Solutions, Inc	10-Feb-22
L-145-2019/0	(b) (4)	(b) (4)	Globin Solutions, Inc	10-Feb-22
L-145-2019/0	(b) (4)	(b) (4)	Globin Solutions, Inc	10-Feb-22
L-145-2019/0	(b) (4)	(b) (4)	Globin Solutions, Inc	10-Feb-22
L-145-2019/0	(b) (4)	(b) (4)	Globin Solutions, Inc	10-Feb-22

Note: L-145-2019/0 split between CC; NHLBI; NIDDK; NINDS

L-052-1996/3	Leonard, Warren J.	(b) (4)	Millipore Sigma	22-Feb-22
L-052-1996/3	Lin, Jian-Xin	(b) (6)	Millipore Sigma	22-Feb-22

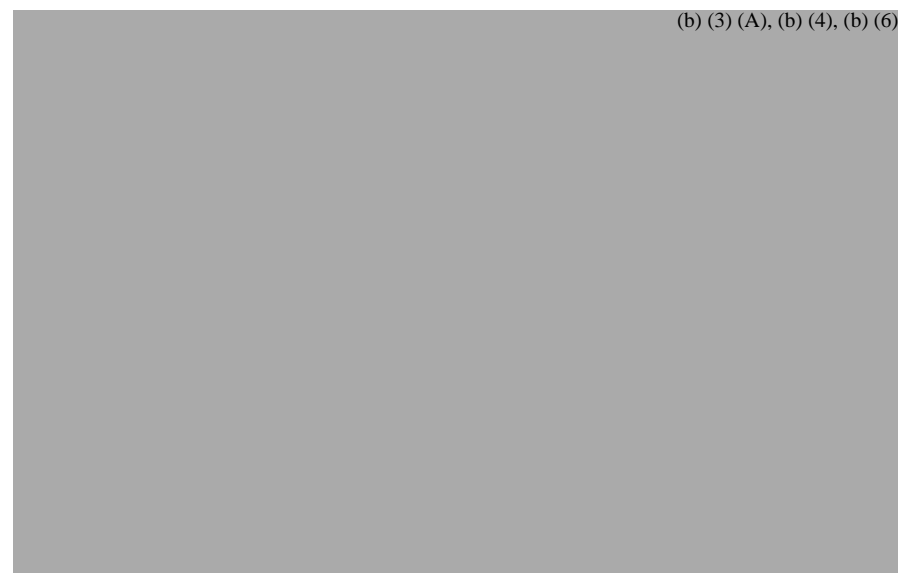
L-120-1997/2	Lee, Seung-Rock	(b) (4)	Millipore Sigma	22-Feb-22
L-120-1997/2	Rhee, Sue Goo	(b) (4)	Millipore Sigma	22-Feb-22

L-138-2010/0	Adelstein, Robert	(b) (4)	Millipore Corp	22-Feb-22
L-138-2010/0	Kawamoto, Sachiyo	(b) (4)	Millipore Corp	22-Feb-22
L-138-2010/0	Kim, Kee Kwang	(b) (4)	Millipore Corp	22-Feb-22

L-228-1996/3	Adelstein, Robert	(b) (4)	Biogen, Inc.	23-Feb-22
L-228-1996/3	Kelley, Christine A	(b) (4)	Biogen, Inc.	23-Feb-22

L-214-2018/0	Combs, Christian A.	(b) (4)	Yokogawa Electric Corporation	25-Feb-22
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Note: L-214-2018/0 split between NHLBI; NIBIB



(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NHLBI
March 2022

License	Inventor	Inventor Share %	Inventor Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-102-2007/1	Nirenberg, (b) (6) Marshall	(b) (4)	Life Technologies Corporation	1-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-102-2007/1	Walsh, Frank	(b) (6)	Life Technologies Corporation	1-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
Note: L-102-2007/1 split between NHLBI; NIAID										
L-010-2014/0	Cecchini, Sylvain	(b) (4)	Life Technology Corp. (BAC BV)	1-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-010-2014/0	Kotin, Robert M.	(b) (4)	Life Technology Corp. (BAC BV)	1-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-010-2014/0	Smith, Richard H.	(b) (4)	Life Technology Corp. (BAC BV)	1-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-181-2017/0	Ding, Chuan-Tian	(b) (4)	Esteve Pharmaceuticals	2-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-181-2017/0	Kotin, Robert M.	(b) (4)	Esteve Pharmaceuticals	2-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-181-2017/0	Urabe, Masashi	(b) (4)	Esteve Pharmaceuticals	2-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-109-2021/0	Childs, Richard W.	(b) (4)	ONK Therapeutics	23-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-109-2021/0	Igarashi, Takehito	(b) (4)	ONK Therapeutics	23-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-109-2021/0	Wynberg, Jason	(b) (4)	ONK Therapeutics	23-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-258-2018/0	Derbyshire, John Andrew	(b) (4)	Siemens Healthcare GmbH	24-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-258-2018/0	(b) (4)	(b) (4)	Siemens Healthcare GmbH	24-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-258-2018/0	McVeigh, Elliott R	(b) (4)	Siemens Healthcare GmbH	24-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-258-2018/0	Nezafat, Reza	(b) (4)	Siemens Healthcare GmbH	24-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-258-2018/0	Derbyshire, John Andrew	(b) (4)	Siemens Healthcare GmbH	28-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)
L-258-2018/0	(b) (4)	(b) (4)	Siemens Healthcare GmbH	28-Mar-22	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (6)	(b) (3) (A), (b) (4), (b) (6)

L-258-2018/0 McVeigh, Elliott R
L-258-2018/0 Nezafat, Reza

(b) (4): Siemens Healthcare GmbH
(b) (6): Siemens Healthcare GmbH

28-Mar-22
28-Mar-22

L-214-2018/0 Combs, Christian A.
Note: L-214-2018/0 split between NHLBI; NIBIB

Yokogawa Electric Corporation

30-Mar-22

L-214-2018/0 NHLBI
Note: L-214-2018/0 split between NHLBI; NIBIB

Yokogawa Electric Corporation

30-Mar-22

L-186-2018/0 Ding, Chuan-Tian
L-186-2018/0 Kotin, Robert M.
L-186-2018/0 Urabe, Masashi

(b) (4): Casebia Therapeutics
(b) (6): Casebia Therapeutics
Casebia Therapeutics

31-Mar-22
31-Mar-22
31-Mar-22

(b) (3) (A), (b) (4), (b) (6)

\$591,542.87	\$20,578.69	\$612,121.56	\$230,139.55	\$381,982.01
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NIH Patent Licensing Activities
NIA
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-122-2018/1	NIA		Peptron	13-Oct-21						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NIA
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-132-2017/0	Matarin Jimenez, Maria Del Mar	(b) (4)	CereDx Inc.	12-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-132-2017/0	Singleton, Andrew B.	(b) (6)	CereDx Inc.	12-Nov-21						
<i>Note: L-132-2017/0 split between NIA; NINDS; NINR</i>										
L-117-1995/2	Hodes, Richard J		Southern Biotechnology Associates, Inc.	15-Nov-21						
<i>Note: L-117-1995/2 split between NCI; NIA</i>										

NIH Patent Licensing Activities
NIA
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-166-2016/0	Falco, Geppino	(b) (4)	Elixirgen, LLC	17-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-166-2016/0	Ko, Minoru S.	(b) (6)	Elixirgen, LLC	17-Dec-21						
L-166-2016/0	Lee, Sung-Lim		Elixirgen, LLC	17-Dec-21						
L-166-2016/0	Monti, Manuela		Elixirgen, LLC	17-Dec-21						
L-166-2016/0	Sharova, Lioudmila V.		Elixirgen, LLC	17-Dec-21						
L-166-2016/0	Stanghellini, Ilaria		Elixirgen, LLC	17-Dec-21						
L-166-2016/0	Zalzman, Michal		Elixirgen, LLC	17-Dec-21						

NIH Patent Licensing Activities
NIA
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-073-2021/0	Goetzl, Edward	(b) (4)	AevisBio, Inc	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-073-2021/0	Greig, Nigel H	(b) (6)	AevisBio, Inc	4-Jan-22						
L-073-2021/0	Holloway, Harold		AevisBio, Inc	4-Jan-22						
L-073-2021/0	Luo, Weiming		AevisBio, Inc	4-Jan-22						
L-073-2021/0	Tweedie, David		AevisBio, Inc	4-Jan-22						
L-073-2021/0	(b) (4)		AevisBio, Inc	4-Jan-22						
L-073-2021/0	Yu, Qian-sheng		AevisBio, Inc	4-Jan-22						
<i>Note: L-073-2021/0 split between NCI; NIA</i>										

L-073-2021/0	NIA	AevisBio, Inc	4-Jan-22	(b) (3) (A), (b) (4), (b) (6)
Note: L-073-2021/0 split between NCI; NIA				
L-281-2014/1	Doyle, Maire E	(b) (4), Peptron	7-Jan-22	
L-281-2014/1	Egan, Josephine M	(b) (6) Peptron	7-Jan-22	
L-281-2014/1	Greig, Nigel H	Peptron	7-Jan-22	
L-281-2014/1	Holloway, Harold	Peptron	7-Jan-22	
L-281-2014/1	Perry, Tracy Ann	Peptron	7-Jan-22	
L-122-2018/1	Greig, Nigel H	Peptron	7-Jan-22	
L-122-2018/1	Kim, Dong Seok	Peptron	7-Jan-22	
L-122-2018/1	Li, Yazhou	Peptron	7-Jan-22	
L-281-2014/1	Doyle, Maire E	Peptron	28-Jan-22	
L-281-2014/1	Egan, Josephine M	Peptron	28-Jan-22	
L-281-2014/1	Greig, Nigel H	Peptron	28-Jan-22	
L-281-2014/1	Holloway, Harold	Peptron	28-Jan-22	
L-281-2014/1	Perry, Tracy Ann	Peptron	28-Jan-22	
L-122-2018/1	Greig, Nigel H	Peptron	28-Jan-22	
L-122-2018/1	Kim, Dong Seok	Peptron	28-Jan-22	
L-122-2018/1	Li, Yazhou	Peptron	28-Jan-22	

NIH Patent Licensing Activities

NIA

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-012-2012/2	Greig, Nigel H	(b) (4)	Horizon Pharmaceutical LLC	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-012-2012/2	Holloway, Harold	(b) (6)	Horizon Pharmaceutical LLC	1-Feb-22						
L-012-2012/2	Ingram, Donald		Horizon Pharmaceutical LLC	1-Feb-22						
L-012-2012/2	Shaw, Karen		Horizon Pharmaceutical LLC	1-Feb-22						
L-012-2012/2	Yu, Qian-sheng		Horizon Pharmaceutical LLC	1-Feb-22						
L-131-2018/0	Bagrov, Alexei		CTS Biopharma	7-Feb-22						
L-131-2018/0	Fedorova, Olga V.		CTS Biopharma	7-Feb-22						
L-131-2018/0	Lakatta, Edward G.		CTS Biopharma	7-Feb-22						

NIH Patent Licensing Activities

NIA

March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-160-2007/0	Shin, Soojung	(b) (4)	Life Technologies	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
		(b) (6)								
					\$65,483.44	\$108,541.87	\$174,025.31		\$23,247.56	\$150,777.75

NIH Patent Licensing Activities
NIAAA
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-162-2016/3	Cinar, Resat	(b) (4)	nversago Pharma Inc.	19-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-162-2016/3	Iyer, Malliga R.	(b) (6)	nversago Pharma Inc.	19-Jan-22						
L-162-2016/3	Kunos, George I		nversago Pharma Inc.	19-Jan-22						

Note: L-162-2016/3 split between NIAAA

NIH Patent Licensing Activities
NIAAA
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
										(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 NIAID
 October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-164-2021/0	Akin, Cem	(b) (4)	Eurofins Beacon Discovery, Inc.	1-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-164-2021/0	Kirshenbaum, Arnold	(b) (6)	Eurofins Beacon Discovery, Inc.	1-Oct-21						
L-164-2021/0	Metcalfe, Dean D		Eurofins Beacon Discovery, Inc.	1-Oct-21						
L-074-1991/3	Harriman, Gregory R.		Becton, Dickson and Company	7-Oct-21						
L-074-1991/3	Kunimoto, Dennis Y.		Becton, Dickson and Company	7-Oct-21						
L-074-1991/3	Paul, (b) (6) William E.		Becton, Dickson and Company	7-Oct-21						
L-074-1991/3	Strober, Warren		Becton, Dickson and Company	7-Oct-21						
L-079-1993/2	Ohara, Junichi		BD Biosciences - BD PharMingen	7-Oct-21						
L-079-1993/2	Paul (b) (6) William E.		BD Biosciences - BD PharMingen	7-Oct-21						
L-298-2019/0	Connors, Mark		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Huang, Jinghe		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Ishida, Elise H.		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Kang, Byong Ha		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Kwong, Peter D.		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Mascola, John R.		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Zheng, Anqi		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-298-2019/0	Zhou, Tongqing		GlaxoSmithKline Intellectual Property Li	7-Oct-21						
L-158-2020/1	Abisola Abiona, Olubukola Mary		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Corbett, Kizzmekia		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Graham, Barney		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Kong, Wing-pui		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Ledgerwood, Julie		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Mascola, John R.		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Shi, Wei		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Wang, Lingshu		AbCellera Biologics Inc.	14-Oct-21						
L-158-2020/1	Zhang, Yi		AbCellera Biologics Inc.	14-Oct-21						
L-144-2014/1	NIAID		GlaxoSmithKline Biologicals SA	16-Oct-21						
L-124-2018/0	Garboczi, David	(b) (4)	Abcam plc	18-Oct-21						
L-124-2018/0	Lantz, Larry	(b) (6)	Abcam plc	18-Oct-21						
L-124-2018/0	Leppa, Stephen H.		Abcam plc	18-Oct-21						
L-124-2018/0	Leysath, Clinton E.		Abcam plc	18-Oct-21						
L-124-2018/0	Phillips, Damilola D.		Abcam plc	18-Oct-21						
L-240-2021/0	Akin, Cem		ALK-Abello A/S	18-Oct-21						
L-240-2021/0	Kirshenbaum, Arnold		ALK-Abello A/S	18-Oct-21						
L-240-2021/0	Metcalfe, Dean D		ALK-Abello A/S	18-Oct-21						
L-028-2019/1	Graham, Barney		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	(b) (4)		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	(b) (4)		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	Ledgerwood, Julie		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	Mulangu, Sabue		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	Muyembe-Tamfun, Jean-Jacques		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	Stanley, Daphne Amanda		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	Sullivan, Nancy J		Ridgeback Biotherapeutics	20-Oct-21						
L-028-2019/1	United States Army		Ridgeback Biotherapeutics	20-Oct-21						

Case Number	Applicant	Company	Date	Redaction
L-028-2019/1	NIAID	Ridgeback Biotherapeutics	20-Oct-21	(b) (3) (A), (b) (4), (b) (6)
L-179-2020/0	Abisola Abiona, Olubukola Mary	(b) (4), BioNTech AG	21-Oct-21	
L-179-2020/0	Corbett, Kizzmekia	(b) (6) BioNTech AG	21-Oct-21	
L-179-2020/0	(b) (4)	BioNTech AG	21-Oct-21	
L-179-2020/0	Graham, Barney	BioNTech AG	21-Oct-21	
L-179-2020/0	Hutchinson, Geoffrey Bain	BioNTech AG	21-Oct-21	
L-179-2020/0	Joyce, Michael G.	BioNTech AG	21-Oct-21	
L-179-2020/0	Kanekiyo, Masaru	BioNTech AG	21-Oct-21	
L-179-2020/0	(b) (4)	BioNTech AG	21-Oct-21	
L-179-2020/0	(b) (4)	BioNTech AG	21-Oct-21	
L-179-2020/0	Yassine, Hadi M.	BioNTech AG	21-Oct-21	
L-078-2011/0	Mackett, Michael	CEVA Biomune	22-Oct-21	
L-078-2011/0	Moss, Bernard	CEVA Biomune	22-Oct-21	
L-078-2011/0	Smith, Geoffrey L.	CEVA Biomune	22-Oct-21	
L-155-2018/2	Baxa, Ulrich	Icosavax	26-Oct-21	
L-155-2018/2	Boyington, Jeffrey C.	Icosavax	26-Oct-21	
L-155-2018/2	Buchholz, Ursula	Icosavax	26-Oct-21	
L-155-2018/2	Chen, Lei	Icosavax	26-Oct-21	
L-155-2018/2	Chen, Man	Icosavax	26-Oct-21	
L-155-2018/2	Chuang, Gwo-Yu	Icosavax	26-Oct-21	
L-155-2018/2	Collins, Peter L.	Icosavax	26-Oct-21	
L-155-2018/2	Druz, Aliksandr A.	Icosavax	26-Oct-21	
L-155-2018/2	Georgiev, Ivelin S.	Icosavax	26-Oct-21	
L-155-2018/2	Gorman, Jason	Icosavax	26-Oct-21	
L-155-2018/2	Kong, Wing-pui	Icosavax	26-Oct-21	
L-155-2018/2	Kwong, Peter D.	Icosavax	26-Oct-21	
L-155-2018/2	Mascola, John R.	Icosavax	26-Oct-21	
L-155-2018/2	McLellan, Jason Scott	Icosavax	26-Oct-21	
L-155-2018/2	OFEK, GILAD A	Icosavax	26-Oct-21	
L-155-2018/2	Ou, Li	Icosavax	26-Oct-21	
L-155-2018/2	Pancera, Marie L.	Icosavax	26-Oct-21	
L-155-2018/2	Rundlet, Emily J	Icosavax	26-Oct-21	
L-155-2018/2	Sastry, Mallika	Icosavax	26-Oct-21	
L-155-2018/2	Soto, Cinque	Icosavax	26-Oct-21	
L-155-2018/2	Srivatsan, Sanjay R.	Icosavax	26-Oct-21	
L-155-2018/2	Stewart-Jones, Guillaume BE	Icosavax	26-Oct-21	
L-155-2018/2	Thomas, Paul V.	Icosavax	26-Oct-21	
L-155-2018/2	Tsybovsky, Yaroslav	Icosavax	26-Oct-21	
L-155-2018/2	Van Galen, Joseph	Icosavax	26-Oct-21	
L-155-2018/2	(b) (4)	Icosavax	26-Oct-21	
L-155-2018/2	YANG, YONGPING	Icosavax	26-Oct-21	
L-155-2018/2	Zhang, Baoshan	Icosavax	26-Oct-21	
L-155-2018/2	Zhou, Tongqing	Icosavax	26-Oct-21	
L-188-2020/0	NIAID	Terimmune Inc.	26-Oct-21	
L-188-2020/0	NIAID	Terimmune Inc.	26-Oct-21	
L-152-2002/3	Hsu, Su-Cheng Dana	(b) (4), Emergent BioDefense	27-Oct-21	
L-152-2002/3	Leppia, Stephen H.	(b) (6) Emergent BioDefense	27-Oct-21	
L-152-2002/3	Pomerantsev, Andrei P	Emergent BioDefense	27-Oct-21	
<i>Note: L-152-2002/3 split between NIAID; NIDCR</i>				
L-244-2021/0	Akin, Cem	Septerna, Inc.	27-Oct-21	
L-244-2021/0	Kirshenbaum, Arnold	Septerna, Inc.	27-Oct-21	
L-244-2021/0	Metcalfe, Dean D	Septerna, Inc.	27-Oct-21	

L-244-2021/0	Akin, Cem	(b) (4)	Septerna, Inc.	27-Oct-21
L-244-2021/0	Kirshenbaum, Arnold	(b) (6)	Septerna, Inc.	27-Oct-21
L-244-2021/0	Metcalfe, Dean D		Septerna, Inc.	27-Oct-21
L-001-2015/2	NIAID		Merck Sharp & Dohme, Corp.	28-Oct-21

Note: L-001-2015/2 split between FDA; NIAID

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-068-2004/2	NIAID		SillaJen Biotherapeutics, Inc	1-Nov-21						(b) (3) (A), (b) (4), (b) (6)
Note: L-068-2004/2 split between NCI; NIAID										
L-117-2020/0	Emerson, Suzanne U.	(b) (4)	Southern Research Institute	1-Nov-21						
L-117-2020/0	Nguyen, Hanh T.	(b) (4)	Southern Research Institute	1-Nov-21						
L-117-2020/0	Purcell, Robert H.	(b) (6)	Southern Research Institute	1-Nov-21						
L-117-2020/0	Shukla Bajpai, Priyanka		Southern Research Institute	1-Nov-21						
L-117-2020/0	Torian, Udana M		Southern Research Institute	1-Nov-21						
L-227-2021/0	Baxa, Ulrich		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Boyington, Jeffrey C.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Chen, Lei		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Chen, Man		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Chuang, Gwo-Yu		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Druz, Aliaksandr A.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Georgiev, Ivelin S.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Gorman, Jason		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Kong, Wing-pui		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Kwong, Peter D.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Mascola, John R.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	McLellan, Jason Scott		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	OFEK, GILAD A		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Ou, Li		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Pancera, Marie L.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Rundlet, Emily J		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Sastry, Mallika		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Soto, Cinque		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Srivatsan, Sanjay R.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Stewart-Jones, Guillaume BE		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Thomas, Paul V.		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Tsybovsky, Yaroslav		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Van Galen, Joseph		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	YANG, YONGPING		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Zhang, Baoshan		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-227-2021/0	Zhou, Tongqing		Changchun BCHT Biotechnology Co.	2-Nov-21						
L-202-2015/1	Akin, Cem		Genentech, Inc.	8-Nov-21						
L-202-2015/1	Kirshenbaum, Arnold		Genentech, Inc.	8-Nov-21						
L-202-2015/1	Metcalfe, Dean D		Genentech, Inc.	8-Nov-21						
L-070-2016/1	Akahata, Wataru		Emergent Biosolutions	9-Nov-21						
L-070-2016/1	Nabel, Gary J		Emergent Biosolutions	9-Nov-21						
L-070-2016/1	Rao, Srinivas		Emergent Biosolutions	9-Nov-21						
L-070-2016/1	Sullivan, Nancy J		Emergent Biosolutions	9-Nov-21						
L-070-2016/1	Yang, Zhi-Yong		Emergent Biosolutions	9-Nov-21						

Note: L-070-2016/1 split between CDC; NIAID

L-251-2021/0	Chuang, Gwo-Yu	(b) (4) Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Connors, Mark	(b) (6) Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Georgiev, Ivelin S.	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Kwon, Young Do	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Kwong, Peter D.	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Mascola, John R.	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Nabel, Gary J	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Rudicell, Rebecca S.	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Shi, Wei	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Wu, Xueling	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	YANG, YONGPING	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Yang, Zhi-Yong	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Zhang, Baoshan	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Zhou, Tongqing	Vir Biotechnology, Inc.	9-Nov-21
L-251-2021/0	Zhu, Jiang	Vir Biotechnology, Inc.	9-Nov-21
L-211-2014/2	Biacchesi, Stephanie	ViraTree, LLC	12-Nov-21
L-211-2014/2	Buchholz, Ursula	ViraTree, LLC	12-Nov-21
L-211-2014/2	Bukreyev, Alexander	ViraTree, LLC	12-Nov-21
L-211-2014/2	Collins, Peter L.	ViraTree, LLC	12-Nov-21
L-211-2014/2	Luongo, Cindy L.	ViraTree, LLC	12-Nov-21
L-211-2014/2	Murphy, Brian R.	ViraTree, LLC	12-Nov-21
L-211-2014/2	Nutt, Anne S.	ViraTree, LLC	12-Nov-21
L-211-2014/2	(b) (4)	ViraTree, LLC	12-Nov-21
L-211-2014/2	(b) (4)	ViraTree, LLC	12-Nov-21
L-211-2014/2	Skiadopoulos, Mario	ViraTree, LLC	12-Nov-21
L-250-2020/0	(b) (4)	Thermo Fisher Scientific Inc.	12-Nov-21
L-250-2020/0	(b) (4)	Thermo Fisher Scientific Inc.	12-Nov-21
L-250-2020/0	(b) (4)	Thermo Fisher Scientific Inc.	12-Nov-21
L-120-1995/3	Shevach, Ethan M	Southern Biotechnology Associates, Inc.	15-Nov-21
L-061-2013/0	Chen, Zhao Chun	BioFactura, Inc.	15-Nov-21
L-061-2013/0	Emerson, Suzanne U.	BioFactura, Inc.	15-Nov-21
L-061-2013/0	Moss, Bernard	BioFactura, Inc.	15-Nov-21
L-061-2013/0	Purcell, Robert H.	BioFactura, Inc.	15-Nov-21
L-056-2018/2	Akin, Cem	ActivX Biosciences, Inc.	15-Nov-21
L-056-2018/2	Kirshenbaum, Arnold	ActivX Biosciences, Inc.	15-Nov-21
L-056-2018/2	Metcalfe, Dean D	ActivX Biosciences, Inc.	15-Nov-21
L-047-2020/0	Morse III, Herbert	Genentech, Inc.	15-Nov-21
L-142-2007/2	Mackett, Michael	Transgene S.A.	17-Nov-21
L-142-2007/2	Moss, Bernard	Transgene S.A.	17-Nov-21
L-142-2007/2	Smith, Geoffrey L	Transgene S.A.	17-Nov-21
L-231-2020/0	Purcell, Robert H.	ZeptoMetrix Corporation	17-Nov-21
L-188-2020/0	Kim, Yong Chan	Teraimmune Inc.	18-Nov-21
L-188-2020/0	Shevach, Ethan M	Teraimmune Inc.	18-Nov-21

(b) (3) (A), (b) (4), (b) (6)

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-245-2021/0	Akin, Cem	(b) (4)	Bayer AG	1-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-245-2021/0	Kirshenbaum, Arnold	(b) (6)	Bayer AG	1-Dec-21						
L-245-2021/0	Metcalfe, Dean D		Bayer AG	1-Dec-21						
L-135-2017/4	Boyington, Jeffrey C.		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Kong, Wing-pui		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Kwong, Peter D.		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Mascola, John R.		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	McTamney, Patrick		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Moin, Syed M.		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Nabel, Gary J		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Wang, Lingshu		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Wei, Chih-Jen		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Whittle, James R R		Emergent Product Development Gaithersbur	2-Dec-21						
L-135-2017/4	Yang, Zhi-Yong		Emergent Product Development Gaithersbur	2-Dec-21						
L-155-2020/0	Akahata, Wataru		Emergent Product Development Gaithersbur	2-Dec-21						
L-155-2020/0	Nabel, Gary J		Emergent Product Development Gaithersbur	2-Dec-21						
L-155-2020/0	Rao, Srinivas		Emergent Product Development Gaithersbur	2-Dec-21						
L-155-2020/0	Yang, Zhi-Yong		Emergent Product Development Gaithersbur	2-Dec-21						
L-119-2020/0	Leppla, Stephen H.		Cure Therapeutics	6-Dec-21						
L-170-1998/2	Conrad, John T.		R-Biopharm AG	7-Dec-21						
L-170-1998/2	Lujan, Hugo D		R-Biopharm AG	7-Dec-21						
L-170-1998/2	Mowatt, Michael		R-Biopharm AG	7-Dec-21						
L-170-1998/2	Nash, Theodore		R-Biopharm AG	7-Dec-21						
L-080-2004/1	Green, Lisbeth Kim		R-Biopharm AG	7-Dec-21						
L-080-2004/1	Sosnovtsev, Stanislav V		R-Biopharm AG	7-Dec-21						
L-126-2011/1	Cheung, Yiu Chong Gordon		Emergent BioSolutions Inc.	8-Dec-21						
L-126-2011/1	Gupta, Pradeep K.		Emergent BioSolutions Inc.	8-Dec-21						
L-126-2011/1	Hu, Haijing		Emergent BioSolutions Inc.	8-Dec-21						
L-126-2011/1	Leppla, Stephen H.		Emergent BioSolutions Inc.	8-Dec-21						
L-126-2011/1	Leysath, Clinton E.		Emergent BioSolutions Inc.	8-Dec-21						
L-126-2011/1	Moayeri, Mahtab		Emergent BioSolutions Inc.	8-Dec-21						
L-126-2011/1	Pomerantsev, Andrei P		Emergent BioSolutions Inc.	8-Dec-21						
L-253-2015/0	Chanock, (b) (6) Robert		Sun Biotech Pte., Ltd.	8-Dec-21						
L-253-2015/0	Hoshino, Yasutaka		Sun Biotech Pte., Ltd.	8-Dec-21						
L-253-2015/0	Kapikian, (b) (6) Albert Z		Sun Biotech Pte., Ltd.	8-Dec-21						
L-066-2020/0	Akahata, Wataru		The Native Antigen Company	9-Dec-21						
L-066-2020/0	Nabel, Gary J		The Native Antigen Company	9-Dec-21						
L-066-2020/0	Rao, Srinivas		The Native Antigen Company	9-Dec-21						
L-205-2020/0	Collins, Peter L.		Vir Biotechnology, Inc	9-Dec-21						
L-205-2020/0	(b) (4)		Vir Biotechnology, Inc	9-Dec-21						
L-150-2020/0	(b) (4)		Medigen Vaccine Biologics Corp	10-Dec-21						
L-150-2020/0	Kong, Wing-pui		Medigen Vaccine Biologics Corp	10-Dec-21						
L-150-2020/0	Mascola, John R.		Medigen Vaccine Biologics Corp	10-Dec-21						
L-150-2020/0	(b) (4)		Medigen Vaccine Biologics Corp	10-Dec-21						
L-150-2020/0	(b) (4)		Medigen Vaccine Biologics Corp	10-Dec-21						
L-150-2020/0	Wang, Lingshu		Medigen Vaccine Biologics Corp	10-Dec-21						

L-207-2020/0	(b) (4)	(b) (4)	The Binding Site Group Ltd.	17-Dec-21	(b) (3) (A), (b) (4), (b) (6)
L-207-2020/0	(b) (4)	(b) (6)	The Binding Site Group Ltd.	17-Dec-21	
L-207-2020/0	(b) (4)	(b) (6)	The Binding Site Group Ltd.	17-Dec-21	
L-049-2000/1	Shevach, Ethan M		eBioscience, Inc..	21-Dec-21	
<i>Note: L-049-2000/1 split between NCI; NIAID</i>					
L-106-2006/1	Shevach, Ethan M		Affymetrix, Inc.	21-Dec-21	
L-057-2018/1	Akin, Cem		Opsidio, LLC	21-Dec-21	
L-057-2018/1	Kirshenbaum, Arnold		Opsidio, LLC	21-Dec-21	
L-057-2018/1	Metcalfe, Dean D		Opsidio, LLC	21-Dec-21	
L-251-2020/0	(b) (4)		Remel Europe Limited	21-Dec-21	
L-251-2020/0	(b) (4)		Remel Europe Limited	21-Dec-21	
L-251-2020/0	(b) (4)		Remel Europe Limited	21-Dec-21	
L-065-2018/1	Akin, Cem		SANOVI-AVENTIS RECHERCHE & DEVELOPPEMENT	22-Dec-21	
L-065-2018/1	Kirshenbaum, Arnold		SANOVI-AVENTIS RECHERCHE & DEVELOPPEMENT	22-Dec-21	
L-065-2018/1	Metcalfe, Dean D		SANOVI-AVENTIS RECHERCHE & DEVELOPPEMENT	22-Dec-21	
L-009-2006/0	Collins, Peter L.		Apath, LLC	23-Dec-21	
L-169-2007/2	Folks, Thomas M		Gilead Sciences, Inc.	23-Dec-21	
L-169-2007/2	Justement, Jesse S		Gilead Sciences, Inc.	23-Dec-21	
L-169-2007/2	Kinter, Audrey L		Gilead Sciences, Inc.	23-Dec-21	
L-073-2018/0	Gautam, Rajeev		Gilead Sciences, Inc.	23-Dec-21	
L-073-2018/0	Martin, Malcolm A		Gilead Sciences, Inc.	23-Dec-21	
L-073-2018/0	Nishimura, Yoshiaki		Gilead Sciences, Inc.	23-Dec-21	
L-073-2018/0	Sadjadpour, Reza		Gilead Sciences, Inc.	23-Dec-21	
L-073-2018/0	Shingai, Masashi		Gilead Sciences, Inc.	23-Dec-21	
L-208-2020/0	Gautam, Rajeev		Gilead Sciences, Inc.	23-Dec-21	
L-208-2020/0	Martin, Malcolm A		Gilead Sciences, Inc.	23-Dec-21	
L-208-2020/0	Nishimura, Yoshiaki		Gilead Sciences, Inc.	23-Dec-21	
L-208-2020/0	Sadjadpour, Reza		Gilead Sciences, Inc.	23-Dec-21	
L-208-2020/0	Shingai, Masashi		Gilead Sciences, Inc.	23-Dec-21	
L-190-2005/2	Bennink, Jack R.		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Broder, Christopher		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Chesebro, Bruce		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Cox, Josephine H		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Doms, Robert W.		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Earl, Patricia L.		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Moss, Bernard		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Wehrly, Kathryn		GeoVax, Inc.	27-Dec-21	
L-190-2005/2	Yewdell, Jonathan W.		GeoVax, Inc.	27-Dec-21	
<i>Note: L-190-2005/2 split between NCI; NIAID</i>					
L-200-2005/6	Chanock, (b) (6) Robert		Wuhan Institute of Bio. Prod.	27-Dec-21	
L-200-2005/6	Hoshino, Yasutaka		Wuhan Institute of Bio. Prod.	27-Dec-21	
L-200-2005/6	Kapikian, (b) (6) Albert Z		Wuhan Institute of Bio. Prod.	27-Dec-21	
L-152-2019/1	Akin, Cem		Celltrion, Inc.	27-Dec-21	
L-152-2019/1	Kirshenbaum, Arnold		Celltrion, Inc.	27-Dec-21	
L-152-2019/1	Metcalfe, Dean D		Celltrion, Inc.	27-Dec-21	
L-150-2020/0	(b) (4)		Medigen Vaccine Biologics Corp	27-Dec-21	
L-150-2020/0	Kong, Wing-pui		Medigen Vaccine Biologics Corp	27-Dec-21	

L-150-2020/0	Mascola, John R.	(b) (4)	Medigen Vaccine Biologics Corp	27-Dec-21
L-150-2020/0	(b) (4)	(b) (6)	Medigen Vaccine Biologics Corp	27-Dec-21
L-150-2020/0	(b) (4)	(b) (6)	Medigen Vaccine Biologics Corp	27-Dec-21
L-150-2020/0	Wang, Lingshu	(b) (6)	Medigen Vaccine Biologics Corp	27-Dec-21
L-243-2020/0	Earl, Patricia L.	(b) (6)	GeoVax, Inc.	27-Dec-21
L-243-2020/0	Mackett, Michael	(b) (6)	GeoVax, Inc.	27-Dec-21
L-243-2020/0	Moss, Bernard	(b) (6)	GeoVax, Inc.	27-Dec-21
L-243-2020/0	Smith, Geoffrey L	(b) (6)	GeoVax, Inc.	27-Dec-21
L-243-2020/0	Wyatt, Linda S.	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	(b) (4)	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Earl, Patricia L.	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Mackett, Michael	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Moss, Bernard	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Smith, Geoffrey L	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	(b) (4)	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	(b) (4)	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Wyatt, Linda S.	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	(b) (4)	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Earl, Patricia L.	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Mackett, Michael	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Moss, Bernard	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Smith, Geoffrey L	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	(b) (4)	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	(b) (4)	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	Wyatt, Linda S.	(b) (6)	GeoVax, Inc.	27-Dec-21
L-257-2020/0	NIAID	(b) (6)	GeoVax, Inc.	27-Dec-21
L-005-2003/1	Ohara, Junichi	(b) (4)	BioLegend Inc	29-Dec-21
L-005-2003/1	Paul (b) (6) William E.	(b) (6)	BioLegend Inc	29-Dec-21
L-011-2008/2	Shevach, Ethan M	(b) (6)	BioLegend	29-Dec-21
L-162-2008/2	Sun, Peter D	(b) (6)	BioLegend, Inc	29-Dec-21
L-162-2008/2	Zou, Zhongcheng	(b) (6)	BioLegend, Inc	29-Dec-21
L-072-2009/1	Long, Eric O.	(b) (6)	BioLegend	29-Dec-21
L-072-2009/1	Rajagopalan, Sumati	(b) (6)	BioLegend	29-Dec-21
L-071-2010/1	DeVico, Angela M.	(b) (6)	BioLegend	29-Dec-21
L-071-2010/1	Korty, Patricia E.	(b) (6)	BioLegend	29-Dec-21
L-071-2010/1	Shevach, Ethan M	(b) (6)	BioLegend	29-Dec-21
L-003-2011/0	Germain, Ronald N.	(b) (6)	BioLegend	29-Dec-21
L-003-2011/0	Porgador, Angel	(b) (6)	BioLegend	29-Dec-21
L-069-2014/0	Mchugh, Rebecca S	(b) (6)	BioLegend	29-Dec-21
L-069-2014/0	Shevach, Ethan M	(b) (6)	BioLegend	29-Dec-21
L-069-2014/0	Stephens, Geoffrey L.	(b) (6)	BioLegend	29-Dec-21
L-246-2014/2	Eisenbarth (b) (6) George Note: L-246-2014/2 split between NHLBI; NIAID	(b) (6)	BIOLEGEND	29-Dec-21
L-110-2017/0	Shevach, Ethan M	(b) (6)	BioLegend Inc.	29-Dec-21
L-056-2018/2	Akin, Cem	(b) (6)	ActivX Biosciences, Inc.	29-Dec-21
L-056-2018/2	Kirshenbaum, Arnold	(b) (6)	ActivX Biosciences, Inc.	29-Dec-21

(b) (3) (A), (b) (4), (b) (6)

L-056-2018/2	Metcalfe, Dean D	(b) (4), (b) (6)	ActivX Biosciences, Inc.	29-Dec-21	(b) (3) (A), (b) (4), (b) (6)
L-016-2021/0	David, Alexandre		Biologend, Inc	29-Dec-21	
L-016-2021/0	Yewdell, Jonathan W.		Biologend, Inc	29-Dec-21	

NIH Patent Licensing Activities
NIAID
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-119-2009/2	Blaney, Jr., Joseph E.	(b) (4)	Fundacao Butantan	1-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-119-2009/2	Hanley, Kathryn	(b) (6)	Fundacao Butantan	1-Jan-22						
L-119-2009/2	Lai, Ching-Juh		Fundacao Butantan	1-Jan-22						
L-119-2009/2	Murphy, Brian R.		Fundacao Butantan	1-Jan-22						
L-119-2009/2	Whitehead, Stephen S.		Fundacao Butantan	1-Jan-22						
<i>Note: L-119-2009/2 split between FDA; NIAID</i>										
L-277-2018/0	Cohen, Jeffrey		Biological E Limited	1-Jan-22						
L-277-2018/0	Cox, Edward E.		Biological E Limited	1-Jan-22						
L-277-2018/0	Pesnicak, Lesley M		Biological E Limited	1-Jan-22						
L-277-2018/0	NIAID		Biological E Limited	1-Jan-22						
L-277-2018/0	Cohen, Jeffrey	(b) (4)	Biological E Limited	1-Jan-22						
L-277-2018/0	Cox, Edward E.	(b) (6)	Biological E Limited	1-Jan-22						
L-277-2018/0	Pesnicak, Lesley M		Biological E Limited	1-Jan-22						
L-277-2018/0	Cohen, Jeffrey		Biological E Limited	1-Jan-22						
L-277-2018/0	Cox, Edward E.		Biological E Limited	1-Jan-22						
L-277-2018/0	Pesnicak, Lesley M		Biological E Limited	1-Jan-22						
L-259-2002/0	Eisenbarth, (b) (6) George		R & D Systems, Inc.	3-Jan-22						
<i>Note: L-259-2002/0 split between NHLBI; NIAID</i>										
L-111-2015/1	NIAID		Codagenix Inc.	3-Jan-22						
L-111-2015/1	Brock, Linda G.	(b) (4)	Codagenix Inc.	3-Jan-22						
L-111-2015/1	Buchholz, Ursula	(b) (6)	Codagenix Inc.	3-Jan-22						
L-111-2015/1	Collins, Peter L.		Codagenix Inc.	3-Jan-22						
L-111-2015/1	DiNapoli, Joshua M.		Codagenix Inc.	3-Jan-22						
L-111-2015/1	Le Nouen, Cyril J.		Codagenix Inc.	3-Jan-22						
L-111-2015/1	(b) (4)		Codagenix Inc.	3-Jan-22						
L-149-2015/1	Blaney, Jr., Joseph E.		Serum Institute of India Ltd.	3-Jan-22						
L-149-2015/1	Hanley, Kathryn		Serum Institute of India Ltd.	3-Jan-22						
L-149-2015/1	Lai, Ching-Juh		Serum Institute of India Ltd.	3-Jan-22						
L-149-2015/1	Murphy, Brian R.		Serum Institute of India Ltd.	3-Jan-22						
L-149-2015/1	Whitehead, Stephen S.		Serum Institute of India Ltd.	3-Jan-22						
<i>Note: L-149-2015/1 split between FDA; NIAID</i>										
L-033-2021/0	(b) (4)		ACROBiosystems Inc.	3-Jan-22						
L-033-2021/0			ACROBiosystems Inc.	3-Jan-22						
L-033-2021/0			ACROBiosystems Inc.	3-Jan-22						
L-036-2006/0	NIAID		Hawaii Biotechnology Group, Inc.	5-Jan-22						
L-024-2019/1	Akin, Cem	(b) (4), (b) (6)	Kyowa Kirin Pharmaceutical Research, Inc	5-Jan-22						

L-024-2019/1	Kirshenbaum, Arnold	(b) (4)	Kyowa Kirin Pharmaceutical Research, Inc	5-Jan-22
L-024-2019/1	Metcalfe, Dean D	(b) (6)	Kyowa Kirin Pharmaceutical Research, Inc	5-Jan-22
L-013-2020/1	Chanock, (b) (6) Robert		Excell BIO Inc.	5-Jan-22
L-013-2020/1	Hoshino, Yasutaka		Excell BIO Inc.	5-Jan-22
L-013-2020/1	Kapikian, (b) (6) Albert Z		Excell BIO Inc.	5-Jan-22
L-012-2022/0	Bennuru, Sasisekhar		Drugs & Diagnostics for Tropical Disease	5-Jan-22
L-012-2022/0	(b) (4)		Drugs & Diagnostics for Tropical Disease	5-Jan-22
L-012-2022/0	Nutman, Thomas B.		Drugs & Diagnostics for Tropical Disease	5-Jan-22
L-074-1991/3	Harriman, Gregory R.		Becton, Dickson and Company	6-Jan-22
L-074-1991/3	Kunimoto, Dennis Y.		Becton, Dickson and Company	6-Jan-22
L-074-1991/3	Paul, (b) (6) William E.		Becton, Dickson and Company	6-Jan-22
L-074-1991/3	Strober, Warren		Becton, Dickson and Company	6-Jan-22
L-079-1993/2	Ohara, Junichi		BD Biosciences - BD PharMingen	6-Jan-22
L-079-1993/2	Paul, (b) (6) William E.		BD Biosciences - BD PharMingen	6-Jan-22
L-125-2012/0	Eisenbarth, (b) (6) George		BD Biosciences	6-Jan-22
<i>Note: L-125-2012/0 split between NHLBI; NIAID</i>				
L-346-2014/0	Blaney, Jr., Joseph E.		Excell BIO, Inc.	6-Jan-22
L-346-2014/0	Jahrling, Peter B.		Excell BIO, Inc.	6-Jan-22
L-346-2014/0	Johnson, Reed F.		Excell BIO, Inc.	6-Jan-22
L-346-2014/0	Paragas, Jason J.		Excell BIO, Inc.	6-Jan-22
L-346-2014/0	(b) (4)		Excell BIO, Inc.	6-Jan-22
L-155-2018/2	NIAID		Icosavax	6-Jan-22
L-089-2021/0	Akin, Cem	(b) (4)	Engitix Limited	6-Jan-22
L-089-2021/0	Kirshenbaum, Arnold	(b) (6)	Engitix Limited	6-Jan-22
L-089-2021/0	Metcalfe, Dean D		Engitix Limited	6-Jan-22
L-200-2019/0	NIAID		Octapharma Biopharmaceuticals GmbH	7-Jan-22
L-021-2021/0	Akin, Cem	(b) (4)	IgGenix, Inc.	10-Jan-22
L-021-2021/0	Kirshenbaum, Arnold	(b) (6)	IgGenix, Inc.	10-Jan-22
L-021-2021/0	Metcalfe, Dean D		IgGenix, Inc.	10-Jan-22
L-046-2017/1	Blaney, Jr., Joseph E.		Medigen Vaccine Biologics Corp	11-Jan-22
L-046-2017/1	Hanley, Kathryn		Medigen Vaccine Biologics Corp	11-Jan-22
L-046-2017/1	Lai, Ching-Juh		Medigen Vaccine Biologics Corp	11-Jan-22
L-046-2017/1	Murphy, Brian R.		Medigen Vaccine Biologics Corp	11-Jan-22
L-046-2017/1	Whitehead, Stephen S.		Medigen Vaccine Biologics Corp	11-Jan-22
<i>Note: L-046-2017/1 split between FDA; NIAID</i>				
L-190-2020/0	Boyington, Jeffrey C.		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Chen, Lei		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Chen, Man		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Chuang, Gwo-Yu		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	(b) (4)		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Georgiev, Ivelin S.		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Gorman, Jason		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Kwong, Peter D.		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	McLellan, Jason Scott		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	OFEK, GILAD A		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Pancera, Marie L.		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Sastry, Mallika		Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Soto, Cinque		Meso Scale Diagnostics, LLC	11-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-190-2020/0	Srivatsan, Sanjay R.	(b) (4), Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Stewart-Jones, Guillaume BE	(b) (6) Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	(b) (4)	Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	(b) (4)	Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	YANG, YONGPING	Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Zhang, Baoshan	Meso Scale Diagnostics, LLC	11-Jan-22
L-190-2020/0	Zhou, Tongqing	Meso Scale Diagnostics, LLC	11-Jan-22
L-012-2022/0	Bennuru, Sasisekhar	Drugs & Diagnostics for Tropical Disease	11-Jan-22
L-012-2022/0	(b) (4)	Drugs & Diagnostics for Tropical Disease	11-Jan-22
L-012-2022/0	Nutman, Thomas B.	Drugs & Diagnostics for Tropical Disease	11-Jan-22
L-197-2005/6	Chanock, (b) (6) Robert	Serum Institute of India PVT. LTD	12-Jan-22
L-197-2005/6	Hoshino, Yasutaka	Serum Institute of India PVT. LTD	12-Jan-22
L-197-2005/6	Kapikian, (b) (6) Albert Z	Serum Institute of India PVT. LTD	12-Jan-22
L-154-2006/0	Mackett, Michael	Boehringer Ingelheim Animal Health USA I	12-Jan-22
L-154-2006/0	Moss, Bernard	Boehringer Ingelheim Animal Health USA I	12-Jan-22
L-154-2006/0	Smith, Geoffrey L.	Boehringer Ingelheim Animal Health USA I	12-Jan-22
L-181-2014/0	Fink, Doran	InBios International Inc	12-Jan-22
L-181-2014/0	Kubofcik, Joseph	InBios International Inc	12-Jan-22
L-181-2014/0	Nutman, Thomas B.	InBios International Inc	12-Jan-22
<i>Note: L-181-2014/0 split between NIAID; NIDCR</i>			
L-248-2015/1	Marques, Adriana	InBios International, Inc.	12-Jan-22
<i>Note: L-248-2015/1 split between NIAID; NIDCR</i>			
L-245-2019/0	Akin, Cem	Escient Pharmaceuticals	13-Jan-22
L-245-2019/0	Kirshenbaum, Arnold	Escient Pharmaceuticals	13-Jan-22
L-245-2019/0	Metcalfe, Dean D	Escient Pharmaceuticals	13-Jan-22
L-019-2020/2	Connors, Mark	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Huang, Jinghe	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Ishida, Elise H.	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Kang, Byong Ha	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Kong, Wing-pui	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Kwong, Peter D.	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Mascola, John R.	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Shi, Wei	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Zheng, Anqi	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-019-2020/2	Zhou, Tongqing	ViiV Healthcare UK (No.6) Ltd	13-Jan-22
L-120-1995/3	Shevach, Ethan M	Southern Biotechnology Associates, Inc.	14-Jan-22
L-178-2018/0	Garboczi, David	Absolute Antibody	14-Jan-22
L-178-2018/0	Lantz, Larry	Absolute Antibody	14-Jan-22
L-178-2018/0	Leppla, Stephen H.	Absolute Antibody	14-Jan-22
L-178-2018/0	Leysath, Clinton E.	Absolute Antibody	14-Jan-22
L-178-2018/0	Phillips, Damilola D.	Absolute Antibody	14-Jan-22
L-132-2020/0	Chen, Zhao Chun	Absolute Antibody Ltd.	14-Jan-22
L-132-2020/0	Emerson, Suzanne U.	Absolute Antibody Ltd.	14-Jan-22
L-132-2020/0	Leppla, Stephen H.	Absolute Antibody Ltd.	14-Jan-22
L-132-2020/0	Purcell, Robert H.	Absolute Antibody Ltd.	14-Jan-22
<i>Note: L-132-2020/0 split between NIAID; NICHD; NIDCR</i>			
L-011-2022/0	Akin, Cem	Arcus Biosciences	14-Jan-22
L-011-2022/0	Kirshenbaum, Arnold	Arcus Biosciences	14-Jan-22
L-011-2022/0	Metcalfe, Dean D	Arcus Biosciences	14-Jan-22

(b) (3) (A), (b) (4), (b) (6)

L-011-2022/0	Akin, Cem	(b) (4), Arcus Biosciences	14-Jan-22
L-011-2022/0	Kirshenbaum, Arnold	(b) (6) Arcus Biosciences	14-Jan-22
L-011-2022/0	Metcalfe, Dean D	Arcus Biosciences	14-Jan-22
L-011-2022/0	Akin, Cem	Arcus Biosciences	14-Jan-22
L-011-2022/0	Kirshenbaum, Arnold	Arcus Biosciences	14-Jan-22
L-011-2022/0	Metcalfe, Dean D	Arcus Biosciences	14-Jan-22
L-155-2018/2	Baxa, Ulrich	Icosavax	18-Jan-22
L-155-2018/2	Boyington, Jeffrey C.	Icosavax	18-Jan-22
L-155-2018/2	Buchholz, Ursula	Icosavax	18-Jan-22
L-155-2018/2	Chen, Lei	Icosavax	18-Jan-22
L-155-2018/2	Chen, Man	Icosavax	18-Jan-22
L-155-2018/2	Chuang, Gwo-Yu	Icosavax	18-Jan-22
L-155-2018/2	Collins, Peter L.	Icosavax	18-Jan-22
L-155-2018/2	Druz, Aliaksandr A.	Icosavax	18-Jan-22
L-155-2018/2	Georgiev, Ivelin S.	Icosavax	18-Jan-22
L-155-2018/2	Gorman, Jason	Icosavax	18-Jan-22
L-155-2018/2	Kong, Wing-pui	Icosavax	18-Jan-22
L-155-2018/2	Kwong, Peter D.	Icosavax	18-Jan-22
L-155-2018/2	Mascola, John R.	Icosavax	18-Jan-22
L-155-2018/2	McLellan, Jason Scott	Icosavax	18-Jan-22
L-155-2018/2	OFEK, GILAD A	Icosavax	18-Jan-22
L-155-2018/2	Ou, Li	Icosavax	18-Jan-22
L-155-2018/2	Pancera, Marie L.	Icosavax	18-Jan-22
L-155-2018/2	Rundlet, Emily J	Icosavax	18-Jan-22
L-155-2018/2	Sastry, Mallika	Icosavax	18-Jan-22
L-155-2018/2	Soto, Cinque	Icosavax	18-Jan-22
L-155-2018/2	Srivatsan, Sanjay R.	Icosavax	18-Jan-22
L-155-2018/2	Stewart-Jones, Guillaume BE	Icosavax	18-Jan-22
L-155-2018/2	Thomas, Paul V.	Icosavax	18-Jan-22
L-155-2018/2	Tsybovsky, Yaroslav	Icosavax	18-Jan-22
L-155-2018/2	Van Galen, Joseph	Icosavax	18-Jan-22
L-155-2018/2	(b) (4)	Icosavax	18-Jan-22
L-155-2018/2	YANG, YONGPING	Icosavax	18-Jan-22
L-155-2018/2	Zhang, Baoshan	Icosavax	18-Jan-22
L-155-2018/2	Zhou, Tongqing	Icosavax	18-Jan-22
L-155-2018/2	NIAID	Icosavax	18-Jan-22
L-258-2019/0	Ishizuka, Andrew S	(b) (4), Avidea Technologies	18-Jan-22
L-258-2019/0	Zhu, Yaling	(b) (6) Avidea Technologies	18-Jan-22
L-018-2021/0	(b) (4)	ReiThera Srl	18-Jan-22
L-018-2021/0	(b) (4)	ReiThera Srl	18-Jan-22
L-018-2021/0	(b) (4)	ReiThera Srl	18-Jan-22
L-034-2015/0	Mackett, Michael	Imanis Life Sciences, LLC	19-Jan-22
L-034-2015/0	Moss, Bernard	Imanis Life Sciences, LLC	19-Jan-22
L-034-2015/0	Smith, Geoffrey L	Imanis Life Sciences, LLC	19-Jan-22
L-065-2021/1	Lugli, Enrico	Lyell Immunopharma, Inc.	20-Jan-22
L-065-2021/1	Roederer, Mario	Lyell Immunopharma, Inc.	20-Jan-22
<i>Note: L-065-2021/1 split between NCI; NIAID</i>			
L-124-2018/0	Garboczi, David	Abcam plc	24-Jan-22
L-124-2018/0	Lantz, Larry	Abcam plc	24-Jan-22
L-124-2018/0	Leppla, Stephen H.	Abcam plc	24-Jan-22
L-124-2018/0	Leysath, Clinton E.	Abcam plc	24-Jan-22

License	Inventor	Inventor Share %	Licensee	Date of Deposit	(b) (3) (A), (b) (4), (b) (6)
L-124-2018/0	Phillips, Damilola D.	(b) (4)	Abcam plc	24-Jan-22	[Redacted]
L-028-2019/1	(b) (4)	(b) (6)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	(b) (4)	(b) (6)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	Ledgerwood, Julie	(b) (4)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	Mulangu, Sabue	(b) (4)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	Muyembe-Tamfun, Jean-Jacques	(b) (4)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	Stanley, Daphne Amanda	(b) (4)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	Sullivan, Nancy J	(b) (4)	Ridgeback Biotherapeutics	24-Jan-22	
L-028-2019/1	United States Army	(b) (4)	Ridgeback Biotherapeutics	24-Jan-22	
L-245-2021/0	Akin, Cem	(b) (4)	Bayer AG	25-Jan-22	
L-245-2021/0	Kirshenbaum, Arnold	(b) (4)	Bayer AG	25-Jan-22	
L-245-2021/0	Metcalfe, Dean D	(b) (4)	Bayer AG	25-Jan-22	
L-138-2016/1	Biacchesi, Stephanie	(b) (4)	Merck Sharp & Dohme Corp.	26-Jan-22	
L-138-2016/1	Buchholz, Ursula	(b) (4)	Merck Sharp & Dohme Corp.	26-Jan-22	
L-138-2016/1	Collins, Peter L.	(b) (4)	Merck Sharp & Dohme Corp.	26-Jan-22	
L-015-2021/0	(b) (4)	(b) (6)	ExcellGene SA	26-Jan-22	
L-015-2021/0	(b) (4)	(b) (6)	ExcellGene SA	26-Jan-22	
L-015-2021/0	(b) (4)	(b) (6)	ExcellGene SA	26-Jan-22	
L-116-2018/0	NIAID	(b) (4)	Katholieke	27-Jan-22	
L-183-2021/0	(b) (4)	(b) (6)	Medicago Inc.	27-Jan-22	
L-183-2021/0	(b) (4)	(b) (6)	Medicago Inc.	27-Jan-22	
L-183-2021/0	(b) (4)	(b) (6)	Medicago Inc.	27-Jan-22	
L-183-2021/0	(b) (4)	(b) (6)	Medicago Inc.	27-Jan-22	
L-183-2021/0	(b) (4)	(b) (6)	Medicago Inc.	27-Jan-22	
L-183-2021/0	(b) (4)	(b) (6)	Medicago Inc.	27-Jan-22	
L-183-2021/0	NIAID	(b) (4)	Medicago Inc.	27-Jan-22	
L-240-2021/0	Akin, Cem	(b) (4)	ALK-Abello A/S	27-Jan-22	
L-240-2021/0	Kirshenbaum, Arnold	(b) (4)	ALK-Abello A/S	27-Jan-22	
L-240-2021/0	Metcalfe, Dean D	(b) (4)	ALK-Abello A/S	27-Jan-22	
L-015-2022/0	Mascola, John R.	(b) (4)	DelSiTech Ltd	27-Jan-22	
L-015-2022/0	Pegu, Amarendra	(b) (4)	DelSiTech Ltd	27-Jan-22	
L-015-2022/0	Shi, Wei	(b) (4)	DelSiTech Ltd	27-Jan-22	

NIH Patent Licensing Activities

NIAID
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-059-2020/0	Akin, Cem	(b) (4)	Merck Sharp & Dohme Corp.	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-059-2020/0	Kirshenbaum, Arnold	(b) (6)	Merck Sharp & Dohme Corp.	1-Feb-22						
L-059-2020/0	Metcalfe, Dean D	(b) (6)	Merck Sharp & Dohme Corp.	1-Feb-22						
L-016-2021/0	David, Alexandre	(b) (4)	Biologend, Inc	1-Feb-22						[Redacted]
L-016-2021/0	Yewdell, Jonathan W.	(b) (4)	Biologend, Inc	1-Feb-22						
L-078-2021/0	(b) (4)	(b) (6)	Icosagen AS	1-Feb-22						[Redacted]
L-078-2021/0	(b) (4)	(b) (6)	Icosagen AS	1-Feb-22						

L-078-2021/0	(b) (4)	(b) (4) Icosagen AS	1-Feb-22	(b) (3) (A), (b) (4), (b) (6)
L-078-2021/0	(b) (4)	(b) (6) Icosagen AS	1-Feb-22	
L-078-2021/0		Icosagen AS	1-Feb-22	
L-078-2021/0		Icosagen AS	1-Feb-22	
L-018-2018/2	Datta, Sandip Kumar	Forte Biosciences Inc	2-Feb-22	
L-018-2018/2	Myles, Ian	Forte Biosciences Inc	2-Feb-22	
L-211-2021/0	Fuerst, Thomas R.	Gilead Sciences Inc.	2-Feb-22	
L-211-2021/0	Hirsch, Vanessa M.	Gilead Sciences Inc.	2-Feb-22	
L-211-2021/0	Moss, Bernard	Gilead Sciences Inc.	2-Feb-22	
L-249-2020/0	Akin, Cem	Laboratorios Liomont, S.A. de C.V	4-Feb-22	
L-249-2020/0	Kirshenbaum, Arnold	Laboratorios Liomont, S.A. de C.V	4-Feb-22	
L-249-2020/0	Metcalfe, Dean D	Laboratorios Liomont, S.A. de C.V	4-Feb-22	
L-244-2019/0	De Wit, Emmie	Public Health Vaccines, LLC.	7-Feb-22	
L-244-2019/0	DeBuysscher, Blair Lynn	Public Health Vaccines, LLC.	7-Feb-22	
L-244-2019/0	Feldmann, Heinrich Ulrich	Public Health Vaccines, LLC.	7-Feb-22	
L-244-2019/0	Marzi, Andrea Maria	Public Health Vaccines, LLC.	7-Feb-22	
L-244-2019/0	Prescott, Joseph	Public Health Vaccines, LLC.	7-Feb-22	
L-149-2021/0	Ohara, Junichi	Proteintech Group Inc.	7-Feb-22	
L-149-2021/0	Paul, (b) (6) William E.	Proteintech Group Inc.	7-Feb-22	
L-207-2013/4	Cheng, Cheng	Hookipa Biotech, AG	9-Feb-22	
L-207-2013/4	Mangalampalli, Venkata R.	Hookipa Biotech, AG	9-Feb-22	
L-207-2013/4	Merritt, Joshua S.	Hookipa Biotech, AG	9-Feb-22	
L-207-2013/4	Schwartz, Richard M.	Hookipa Biotech, AG	9-Feb-22	
L-207-2013/4	Wycuff, Diane L.	Hookipa Biotech, AG	9-Feb-22	
L-261-2019/0	Coligan, John	Bristol-Myers Squibb Company	9-Feb-22	
L-261-2019/0	Krzewski, Konrad	Bristol-Myers Squibb Company	9-Feb-22	
L-261-2019/0	Lee, Ha Na	Bristol-Myers Squibb Company	9-Feb-22	
L-261-2019/0	Tian, Linjie	Bristol-Myers Squibb Company	9-Feb-22	
L-261-2019/0	Voss, Oliver	Bristol-Myers Squibb Company	9-Feb-22	
L-226-2014/2	Nutman, Thomas B.	Quest Distribution Inc.	10-Feb-22	
L-136-2004/2	Ohara, Junichi	Santa Cruz	11-Feb-22	
L-136-2004/2	Paul, (b) (6) William E.	Santa Cruz	11-Feb-22	
L-012-2007/2	Eisenbarth, (b) (6) George	Santa Cruz Biotechnology Inc	11-Feb-22	
L-012-2007/2	Fauci, Anthony	Santa Cruz Biotechnology Inc	11-Feb-22	
L-012-2007/2	Haynes, Barton F.	Santa Cruz Biotechnology Inc	11-Feb-22	
L-108-2007/1	Caldwell, Harlan D	Santa Cruz Biot., Inc.	11-Feb-22	
L-108-2007/1	Morrison, Richard P.	Santa Cruz Biot., Inc.	11-Feb-22	
L-244-2021/0	Akin, Cem	Septerna, Inc.	11-Feb-22	
L-244-2021/0	Kirshenbaum, Arnold	Septerna, Inc.	11-Feb-22	
L-244-2021/0	Metcalfe, Dean D	Septerna, Inc.	11-Feb-22	
L-111-2015/1	NIAID	Codagenix Inc.	14-Feb-22	
L-245-1994/1	Folks, Thomas M	(b) (4) SearCare Life Sciences	15-Feb-22	
L-245-1994/1	Martin, Malcolm A	(b) (6) SearCare Life Sciences	15-Feb-22	
L-245-1994/1	Powell, Douglas M	SearCare Life Sciences	15-Feb-22	

Note: L-245-1994/1 split between NCI; NIAID

L-115-2000/2	Cheung, Yiu Chong Gordon	(b) (4),	List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Gupta, Pradeep K.	(b) (6)	List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Hsu, Su-Cheng Dana		List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Hu, Haijing		List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Leppla, Stephen H.		List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Leysath, Clinton E.		List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Moayeri, Mahtab		List Biological Laboratories, Inc.	15-Feb-22
L-115-2000/2	Pomerantsev, Andrei P		List Biological Laboratories, Inc.	15-Feb-22
<i>Note: L-115-2000/2 split between NIAID; NIDCR</i>				
L-063-2006/3	Barry, Clifton E		Sequella, Inc.	15-Feb-22
L-063-2006/3	Lee, Richard E.		Sequella, Inc.	15-Feb-22
L-063-2006/3	Slayden, Richard A		Sequella, Inc.	15-Feb-22
L-078-2011/0	Mackett, Michael		CEVA Biomune	15-Feb-22
L-078-2011/0	Moss, Bernard		CEVA Biomune	15-Feb-22
L-078-2011/0	Smith, Geoffrey L		CEVA Biomune	15-Feb-22
L-121-2020/0	(b) (4)		Noachis Terra Inc	15-Feb-22
L-121-2020/0			Noachis Terra Inc	15-Feb-22
L-121-2020/0			Noachis Terra Inc	15-Feb-22
L-126-2011/1	Cheung, Yiu Chong Gordon		Emergent BioSolutions Inc.	16-Feb-22
L-126-2011/1	Gupta, Pradeep K.		Emergent BioSolutions Inc.	16-Feb-22
L-126-2011/1	Hu, Haijing		Emergent BioSolutions Inc.	16-Feb-22
L-126-2011/1	Leppla, Stephen H.		Emergent BioSolutions Inc.	16-Feb-22
L-126-2011/1	Leysath, Clinton E.		Emergent BioSolutions Inc.	16-Feb-22
L-126-2011/1	Moayeri, Mahtab		Emergent BioSolutions Inc.	16-Feb-22
L-126-2011/1	Pomerantsev, Andrei P		Emergent BioSolutions Inc.	16-Feb-22
L-217-2016/0	Blaney, Jr., Joseph E.		Indian Immunologicals Ltd	17-Feb-22
L-217-2016/0	Hanley, Kathryn		Indian Immunologicals Ltd	17-Feb-22
L-217-2016/0	Lai, Ching-Juh		Indian Immunologicals Ltd	17-Feb-22
L-217-2016/0	Murphy, Brian R.		Indian Immunologicals Ltd	17-Feb-22
L-217-2016/0	Whitehead, Stephen S.		Indian Immunologicals Ltd	17-Feb-22
<i>Note: L-217-2016/0 split between FDA; NIAID</i>				
L-188-2018/0	Cohen, Jeffrey		Indian Immunologicals Limited	17-Feb-22
L-188-2018/0	Pesnicak, Lesley M		Indian Immunologicals Limited	17-Feb-22
L-035-2018/0	DeVico, Angela M.		Celgene Corporation	18-Feb-22
L-035-2018/0	Shevach, Ethan M		Celgene Corporation	18-Feb-22
L-200-2018/0	Chanock, (b) (6) Robert		Shandong Yidu Biotechnology Co., Ltd.	18-Feb-22
L-200-2018/0	Hoshino, Yasutaka		Shandong Yidu Biotechnology Co., Ltd.	18-Feb-22
L-200-2018/0	Kapikiar, (b) (6) Albert Z		Shandong Yidu Biotechnology Co., Ltd.	18-Feb-22
L-225-1994/4	Siebenlist, Ulrich		Millipore	22-Feb-22
L-035-2010/1	Lobanenkov, Victor		Millipore Corporation	22-Feb-22
L-035-2010/1	Loukinov, Dmitri		Millipore Corporation	22-Feb-22
L-035-2010/1	Vostrov, Alexander A		Millipore Corporation	22-Feb-22
L-011-2015/1	Garboczi, David		Millipore Sigma	22-Feb-22
L-011-2015/1	Lantz, Larry		Millipore Sigma	22-Feb-22
L-011-2015/1	Leppla, Stephen H.		Millipore Sigma	22-Feb-22
L-011-2015/1	Leysath, Clinton E.		Millipore Sigma	22-Feb-22
L-011-2015/1	Phillips, Damilola D.		Millipore Sigma	22-Feb-22

L-165-2015/0	Davey, Richard T.	(b) (4), Millipore Sigma	22-Feb-22
L-165-2015/0	Nutman, Thomas B.	(b) (6) Millipore Sigma	22-Feb-22
L-235-2015/0	Best, Sonja M.	EMD Millipore Corp.	22-Feb-22
L-235-2015/0	Lubick, Kirk	EMD Millipore Corp.	22-Feb-22
L-235-2015/0	Robertson, Shelly J.	EMD Millipore Corp.	22-Feb-22
L-050-2018/0	Caldwell, Harlan D	Millipore Sigma	22-Feb-22
L-063-2018/0	Shevach, Ethan M	Millipore Sigma	22-Feb-22
L-005-2003/1	Ohara, Junichi	Biolegend Inc	23-Feb-22
L-005-2003/1	Paul, (b) (6) William E.	Biolegend Inc	23-Feb-22
L-011-2008/2	Shevach, Ethan M	BioLegend	23-Feb-22
L-072-2009/1	Long, Eric O.	BioLegend	23-Feb-22
L-072-2009/1	Rajagopalan, Sumati	BioLegend	23-Feb-22
L-071-2010/1	DeVico, Angela M.	BioLegend	23-Feb-22
L-071-2010/1	Korty, Patricia E.	BioLegend	23-Feb-22
L-071-2010/1	Shevach, Ethan M	BioLegend	23-Feb-22
L-003-2011/0	Germain, Ronald N.	Biolegend	23-Feb-22
L-003-2011/0	Porgador, Angel	Biolegend	23-Feb-22
L-110-2017/0	Shevach, Ethan M	BioLegend Inc.	23-Feb-22
L-303-2019/2	NIAID	TaiMed Biologics USA, Inc.	23-Feb-22
L-157-2020/0	Germain, Ronald N.	(b) (4), Biolegend, Inc.	23-Feb-22
L-157-2020/0	Gerner, Michael Y	(b) (6) Biolegend, Inc.	23-Feb-22
L-157-2020/0	Li, Weizhe	Biolegend, Inc.	23-Feb-22
L-190-2020/0	Boyington, Jeffrey C.	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Chen, Lei	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Chen, Man	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Chuang, Gwo-Yu	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	(b) (4)	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Georgiev, Ivelin S.	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Gorman, Jason	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Kwong, Peter D.	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	McLellan, Jason Scott	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	OFEK, GILAD A	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Pancera, Marie L.	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Sastry, Mallika	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Soto, Cinque	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Srivatsan, Sanjay R.	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Stewart-Jones, Guillaume BE	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	(b) (4)	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	(b) (4)	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	YANG, YONGPING	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Zhang, Baoshan	Meso Scale Diagnostics, LLC	25-Feb-22
L-190-2020/0	Zhou, Tongqing	Meso Scale Diagnostics, LLC	25-Feb-22
L-059-2021/0	Akahata, Wataru	BIOMERIEUX S. A.	25-Feb-22
L-059-2021/0	Nabel, Gary J	BIOMERIEUX S. A.	25-Feb-22
L-059-2021/0	Rao, Srinivas	BIOMERIEUX S. A.	25-Feb-22
L-246-2020/0	Ohara, Junichi	Leinco Technologies, Inc.	28-Feb-22

L-246-2020/0 Paul, (b) (6) William E.

(b) (4)
(b) (6) Leinco Technologies, Inc.

28-Feb-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-049-2000/1	Shevach, Ethan M	(b) (4)	eBioscience, Inc..	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-049-2000/1 split between NCI; NIAID</i>										
L-054-2006/0	Germain, Ronald N.	(b) (6)	eBioscience	1-Mar-22						
L-054-2006/0	Porgador, Angel	(b) (6)	eBioscience	1-Mar-22						
L-154-2006/0	Mackett, Michael	(b) (6)	Boehringer Ingelheim Animal Health USA I	1-Mar-22						
L-154-2006/0	Moss, Bernard	(b) (6)	Boehringer Ingelheim Animal Health USA I	1-Mar-22						
L-154-2006/0	Smith, Geoffrey L	(b) (6)	Boehringer Ingelheim Animal Health USA I	1-Mar-22						
L-102-2007/1	Eisenbarth, (b) (6) George	(b) (6)	Life Technologies Corporation	1-Mar-22						
<i>Note: L-102-2007/1 split between NHLBI; NIAID</i>										
L-070-2016/1	Akahata, Wataru	(b) (6)	Emergent Biosolutions	1-Mar-22						
L-070-2016/1	Nabel, Gary J	(b) (6)	Emergent Biosolutions	1-Mar-22						
L-070-2016/1	Rao, Srinivas	(b) (6)	Emergent Biosolutions	1-Mar-22						
L-070-2016/1	Sullivan, Nancy J	(b) (6)	Emergent Biosolutions	1-Mar-22						
L-070-2016/1	Yang, Zhi-Yong	(b) (6)	Emergent Biosolutions	1-Mar-22						
<i>Note: L-070-2016/1 split between CDC; NIAID</i>										
L-028-2019/1	(b) (4)	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	(b) (4)	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	Ledgerwood, Julie	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	Mulangau, Sabue	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	Muyembe-Tamfun, Jean-Jacques	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	Stanley, Daphne Amanda	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	Sullivan, Nancy J	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-028-2019/1	United States Army	(b) (4)	Ridgeback Biotherapeutics	1-Mar-22						
L-053-2022/0	Akin, Cem	(b) (6)	Aptuit (Verona) Srl	1-Mar-22						
L-053-2022/0	Kirshenbaum, Arnold	(b) (6)	Aptuit (Verona) Srl	1-Mar-22						
L-053-2022/0	Metcalfe, Dean D	(b) (6)	Aptuit (Verona) Srl	1-Mar-22						
L-208-2014/1	NIAID	(b) (6)	Grifols Therapeutics, Inc.	2-Mar-22						
L-101-1985/0	Mackett, Michael	(b) (4)	ZOETIS	3-Mar-22						
L-101-1985/0	Moss, Bernard	(b) (6)	ZOETIS	3-Mar-22						
L-101-1985/0	Smith, Geoffrey L	(b) (6)	ZOETIS	3-Mar-22						
L-115-2000/2	Cheung, Yiu Chong Gordon	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Gupta, Pradeep K.	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Hsu, Su-Cheng Dana	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Hu, Haijing	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Leppia, Stephen H.	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Leysath, Clinton E.	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Moayeri, Mahtab	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
L-115-2000/2	Pomerantsev, Andrei P	(b) (6)	List Biological Laboratories, Inc.	3-Mar-22						
<i>Note: L-115-2000/2 split between NIAID; NIDCR</i>										
L-078-2021/0	(b) (4)	(b) (4)	Icosagen AS	3-Mar-22						

L-162-2015/2	Chen, Lei	(b) (4), Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Chen, Man	(b) (6) Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Chuang, Gwo-Yu	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Druz, Aliaksandr A.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Georgiev, Ivelin S.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Gorman, Jason	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Kong, Wing-pui	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Kwong, Peter D.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Mascola, John R.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	McLellan, Jason Scott	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	OFEK, GILAD A	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Ou, Li	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Pancera, Marie L.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Rundlet, Emily J	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Sastry, Mallika	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Soto, Cinque	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Srivatsan, Sanjay R.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Stewart-Jones, Guillaume BE	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Thomas, Paul V.	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Tsybovsky, Yaroslav	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Van Galen, Joseph	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	YANG, YONGPING	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Zhang, Baoshan	Merck Sharp and dohme	14-Mar-22
L-162-2015/2	Zhou, Tongqing	Merck Sharp and dohme	14-Mar-22
L-181-2014/0	Fink, Doran	InBios International Inc	15-Mar-22
L-181-2014/0	Kubofcik, Joseph	InBios International Inc	15-Mar-22
L-181-2014/0	Nutman, Thomas B.	InBios International Inc	15-Mar-22
<i>Note: L-181-2014/0 split between NIAID; NIDCR</i>			
L-158-2020/1	Kong, Wing-pui	AbCellera Biologics Inc.	15-Mar-22
L-158-2020/1	Mascola, John R.	AbCellera Biologics Inc.	15-Mar-22
L-158-2020/1	Shi, Wei	AbCellera Biologics Inc.	15-Mar-22
L-158-2020/1	Wang, Lingshu	AbCellera Biologics Inc.	15-Mar-22
L-158-2020/1	Zhang, Yi	AbCellera Biologics Inc.	15-Mar-22
L-165-2013/1	Mackett, Michael	SillaJen Biotherapeutics, Inc	16-Mar-22
L-165-2013/1	Moss, Bernard	SillaJen Biotherapeutics, Inc	16-Mar-22
L-165-2013/1	Smith, Geoffrey L	SillaJen Biotherapeutics, Inc	16-Mar-22
L-099-2014/3	Leppla, Stephen H.	KeraFAST	16-Mar-22
L-099-2014/3	Leysath, Clinton E.	KeraFAST	16-Mar-22
L-099-2014/3	Phillips, Damilola D.	KeraFAST	16-Mar-22
L-099-2014/3	Leppla, Stephen H.	KeraFAST	16-Mar-22
L-099-2014/3	Leysath, Clinton E.	KeraFAST	16-Mar-22
L-099-2014/3	Phillips, Damilola D.	KeraFAST	16-Mar-22
L-203-2020/0	Blaney, Jr., Joseph E.	Janssen Pharmaceutica, N.V.	18-Mar-22
L-203-2020/0	Hanley, Kathryn	Janssen Pharmaceutica, N.V.	18-Mar-22
L-203-2020/0	Lai, Ching-Juh	Janssen Pharmaceutica, N.V.	18-Mar-22
L-203-2020/0	Murphy, Brian R.	Janssen Pharmaceutica, N.V.	18-Mar-22
L-203-2020/0	Whitehead, Stephen S.	Janssen Pharmaceutica, N.V.	18-Mar-22
<i>Note: L-203-2020/0 split between FDA; NIAID</i>			
L-015-2021/0	(b) (4)	ExcellGene SA	18-Mar-22
L-015-2021/0	(b) (4)	ExcellGene SA	18-Mar-22
L-015-2021/0	(b) (4)	ExcellGene SA	18-Mar-22
L-173-2021/0	Germain, Ronald N.	Becton, Dickinson and Company	18-Mar-22

L-173-2021/0	Porgador, Angel	(b) (4)	Becton, Dickinson and Company	18-Mar-22	(b) (3) (A), (b) (4), (b) (6)
L-245-1994/1	Folks, Thomas M	(b) (6)	SearCare Life Sciences	21-Mar-22	
L-245-1994/1	Martin, Malcolm A		SearCare Life Sciences	21-Mar-22	
L-245-1994/1	Powell, Douglas M		SearCare Life Sciences	21-Mar-22	
<i>Note: L-245-1994/1 split between NCI; NIAID</i>					
L-034-2020/0	Mackett, Michael		Helocyte, Inc	21-Mar-22	
L-034-2020/0	Moss, Bernard		Helocyte, Inc	21-Mar-22	
L-034-2020/0	Smith, Geoffrey L		Helocyte, Inc	21-Mar-22	
L-015-2021/0	(b) (4)		ExcellGene SA	21-Mar-22	
L-015-2021/0			ExcellGene SA	21-Mar-22	
L-015-2021/0			ExcellGene SA	21-Mar-22	
L-060-2022/0	Green, Lisbeth Kim		InBios International, Inc.	21-Mar-22	
L-060-2022/0	Sosnovtsev, Stanislav V		InBios International, Inc.	21-Mar-22	
L-060-2022/0	Green, Lisbeth Kim		InBios International, Inc.	21-Mar-22	
L-060-2022/0	Sosnovtsev, Stanislav V		InBios International, Inc.	21-Mar-22	
L-130-2005/2	Chanock, (b) (6) Robert		Biological E Limited	22-Mar-22	
L-130-2005/2	Hoshino, Yasutaka		Biological E Limited	22-Mar-22	
L-130-2005/2	Kapikian (b) (6) Albert Z		Biological E Limited	22-Mar-22	
L-130-2005/3	Chanock (b) (6) Robert		Biological E. Limited	22-Mar-22	
L-130-2005/3	Hoshino, Yasutaka		Biological E. Limited	22-Mar-22	
L-130-2005/3	Kapikian (b) (6) Albert Z		Biological E. Limited	22-Mar-22	
L-114-2009/0	Blaney, Jr., Joseph E.		Co for Vaccine and Bio Productin	23-Mar-22	
L-114-2009/0	Hanley, Kathryn		Co for Vaccine and Bio Productin	23-Mar-22	
L-114-2009/0	Lai, Ching-Juh		Co for Vaccine and Bio Productin	23-Mar-22	
L-114-2009/0	Murphy, Brian R.		Co for Vaccine and Bio Productin	23-Mar-22	
L-114-2009/0	Whitehead, Stephen S.		Co for Vaccine and Bio Productin	23-Mar-22	
<i>Note: L-114-2009/0 split between FDA; NIAID</i>					
L-044-2018/2	NIAID		ModernaTX, Inc.	23-Mar-22	
L-312-2001/0	Ohara, Junichi	(b) (4),	Mabtech AB	24-Mar-22	
L-312-2001/0	Paul, (b) (6) William E.	(b) (6)	Mabtech AB	24-Mar-22	
L-164-2021/0	Akin, Cem		Eurofins Beacon Discovery, Inc.	24-Mar-22	
L-164-2021/0	Kirshenbaum, Arnold		Eurofins Beacon Discovery, Inc.	24-Mar-22	
L-164-2021/0	Metcalfe, Dean D		Eurofins Beacon Discovery, Inc.	24-Mar-22	
L-099-2014/3	Leppla, Stephen H.		KeraFAST	25-Mar-22	
L-099-2014/3	Leysath, Clinton E.		KeraFAST	25-Mar-22	
L-099-2014/3	Phillips, Damilola D.		KeraFAST	25-Mar-22	
L-221-2016/2	Birmingham, Alison		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Buchholz, Ursula		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Collins, Peter L.		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Kwong, Peter D.		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Liang, Bo		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Luongo, Cindy L.		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	McCarty, Thomas Charles		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	McLellan, Jason Scott		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Munir, Shirin		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Murphy, Brian R.		Sanofi Pasteur	28-Mar-22	
L-221-2016/2	Nutt, Anne S.		Sanofi Pasteur	28-Mar-22	

L-262-2020/0 (b) (4)
 L-262-2020/0
 L-262-2020/0

L-074-1991/3 Harriman, Gregory R.
 L-074-1991/3 Kunimoto, Dennis Y.
 L-074-1991/3 Paul (b) (6) William E.
 L-074-1991/3 Strober, Warren

L-079-1993/2 Ohara, Junichi
 L-079-1993/2 Paul, (b) (6) William E.

L-080-2006/4 Blaney, Jr., Joseph E.
 L-080-2006/4 Hanley, Kathryn
 L-080-2006/4 Lai, Ching-Juh
 L-080-2006/4 Murphy, Brian R.
 L-080-2006/4 Whitehead, Stephen S.

Note: L-080-2006/4 split between FDA; NIAID

L-122-2008/0 Mackett, Michael
 L-122-2008/0 Moss, Bernard
 L-122-2008/0 Smith, Geoffrey L

L-197-2005/6 Chanock, (b) (6) Robert
 L-197-2005/6 Hoshino, Yasutaka
 L-197-2005/6 Kapikian, (b) (6) Albert Z

(b) Sanofi Pasteur
 (4) Sanofi Pasteur
 (b) (6) Sanofi Pasteur

Becton, Dickson and Company
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BD Biosciences - BD PharMingen
 BD Biosciences - BD PharMingen

Panacea Biotech Ltd
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Vaccinex Inc
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Serum Institute of India PVT. LTD
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(b) (3) (A), (b) (4), (b) (6)

\$181,078,460.68 \$483,589.48 \$181,562,050.16 \$92,185,402.05 \$89,376,648.11

NIH Patent Licensing Activities
NIAMS
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-202-2018/0	Brydges, Susannah Diane	(b) (4)	University of California, San Diego	5-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-202-2018/0	Kastner, Daniel L	(b) (6)	University of California, San Diego	5-Oct-21						

NIH Patent Licensing Activities
NIAMS
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-066-2005/1	Kinet, Jean-Pierre	(b) (4)	President and Fellows of Harvard College	9-Nov-21						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-066-2005/1 split between NIAMS; NIDCR</i>										
L-006-2021/0	Kong, Heidi H.	(b) (6)	Federation Bio	9-Nov-21						
<i>Note: L-006-2021/0 split between NHGRI; NIAMS</i>										

NIH Patent Licensing Activities
NIAMS
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-243-2016/0	Rao, Mahendra S	(b) (4), (b) (6)	StemCell Technologies Inc.	13-Dec-21						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-243-2016/0 split between NHLBI; NIAMS</i>										

NIH Patent Licensing Activities
NIAMS
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC

NIH Patent Licensing Activities
NIAMS
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-054-2018/0	Plotz, Paul H.	(b) (4)	AVROBIO, Inc	18-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-054-2018/0	Raben, Nina	(b) (6)	AVROBIO, Inc	18-Feb-22						

NIH Patent Licensing Activities
 NIAMS
 March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-171-2019/0	Meylan, Francoise	(b) (4)	Bio X Cell	15-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-171-2019/0	Siegel, Richard	(b) (6)	Bio X Cell	15-Mar-22						
L-171-2019/0	Song, Yun-Jeong		Bio X Cell	15-Mar-22						
L-076-2021/0	Chu, Emily Yin		Petragen Inc.	21-Mar-22						
L-076-2021/0	Foster, Brian Lee		Petragen Inc.	21-Mar-22						
L-076-2021/0	Nociti, Francisco		Petragen Inc.	21-Mar-22						
L-076-2021/0	Somerman, Martha J		Petragen Inc.	21-Mar-22						
L-076-2021/0	Thumbigere-Math, Vivek		Petragen Inc.	21-Mar-22						
L-076-2021/0	(b) (4)		Petragen Inc.	21-Mar-22						
					\$49,699.60	\$0.00	\$49,699.60		\$18,413.21	\$31,286.39

NIH Patent Licensing Activities
NIBIB
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-276-2018/1	Chen, Xiaoyuan	(b) (4)	Molecular Targeting Technologies, Inc	27-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-276-2018/1	Weiss, Orit Jacobson	(b) (6)	Molecular Targeting Technologies, Inc	27-Dec-21						
L-315-2019/0	Chen, Xiaoyuan		Molecular Targeting Technologies, Inc	27-Dec-21						
L-315-2019/0	Weiss, Orit Jacobson		Molecular Targeting Technologies, Inc	27-Dec-21						
L-022-2021/0	Chen, Xiaoyuan		Molecular Targeting Technologies, Inc	27-Dec-21						
L-022-2021/0	Weiss, Orit Jacobson		Molecular Targeting Technologies, Inc	27-Dec-21						

NIH Patent Licensing Activities
NIBIB
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-214-2018/0	Parekh, Sapun	(b) (4)	Yokogawa Electric Corporation	25-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-214-2018/0	Shroff, Hari	(b) (6)	Yokogawa Electric Corporation	25-Feb-22						
L-214-2018/0	York, Andrew G.		Yokogawa Electric Corporation	25-Feb-22						

Note: L-214-2018/0 split between NHLBI; NIBIB

L-276-2018/1 NIBIB Molecular Targeting Technologies, Inc 28-Feb-22 \$82,138.49 \$82,138.49 \$6,000.00 \$82,138.49

**NIH Patent Licensing Activities
NIBIB
March 2022**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-004-2019/0	NIBIB		Sinotau Pharmaceutical Group	21-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-004-2019/0	Chen, Xiaoyuan	(b) (4)	Sinotau Pharmaceutical Group	29-Mar-22						
L-004-2019/0	Weiss, Orit Jacobson	(b) (6)	Sinotau Pharmaceutical Group	29-Mar-22						
L-214-2018/0	Parekh, Sapun		Yokogawa Electric Corporation	30-Mar-22						
L-214-2018/0	Shroff, Hari		Yokogawa Electric Corporation	30-Mar-22						
L-214-2018/0	York, Andrew G.		Yokogawa Electric Corporation	30-Mar-22						
<i>Note: L-214-2018/0 split between NHLBI; NIBIB</i>										
L-214-2018/0	NIBIB		Yokogawa Electric Corporation	30-Mar-22						
<i>Note: L-214-2018/0 split between NHLBI; NIBIB</i>										
					\$142,993.70	\$90,362.57	\$233,356.27		\$37,024.93	\$196,331.34

NIH Patent Licensing Activities
 NICHD
 October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
 NICHD
 November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-061-2019/0	NICHD		Ultragenyx Pharmaceutical Inc	5-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-124-2021/0	Chou, Janice Yang	(b) (4), (b) (6)	Poseidon Innovation, LLC	17-Nov-21						
L-096-2017/0	Chou, Janice Yang		Dimension Therapeutics	18-Nov-21						
L-026-2013/1	Bliithe, Diana L.		Preglem SA	22-Nov-21						
L-026-2013/1	Nieman, Lynnette K.		Preglem SA	22-Nov-21						
L-322-2017/0	Chou, Janice Yang		CRISPR Therapeutics AG	26-Nov-21						

NIH Patent Licensing Activities
 NICHD
 December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-061-2019/0	Chou, Janice Yang	(b) (4), (b) (6)	Ultragenyx Pharmaceutical Inc	6-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-076-2008/0	Robbins, John B.		Emergent Product Development Gaithersbur	15-Dec-21						
L-076-2008/0	Schneerson, Rachel		Emergent Product Development Gaithersbur	15-Dec-21						
<i>Note: L-076-2008/0 split between NICHD; NIDCR; NIDDK</i>										
L-002-2009/1	Dressler, Gregory R.		Life Tech	21-Dec-21						
L-167-2017/0	NICHD		Cyprium Therapeutics Inc.	23-Dec-21						
L-105-2021/0	Chou, Janice Yang	(b) (4), (h) (6)	GeneSpire	23-Dec-21						

NIH Patent Licensing Activities
 NICHD
 January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-132-2020/0	Dai, Lily Zhongdong	(b) (4)	Absolute Antibody Ltd.	14-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-132-2020/0	Kubler-Kielb, Joanna	(b) (6)	Absolute Antibody Ltd.	14-Jan-22						
L-132-2020/0	Schneerson, Rachel		Absolute Antibody Ltd.	14-Jan-22						
<i>Note: L-132-2020/0 split between NIAID; NICHD; NIDCR</i>										

(b) (3) (A), (b) (4), (b) (6)

L-069-2018/1	Chou, Janice Yang	(b) (4), (b) (6)	Ultragenyx Pharmaceutical, Inc.	25-Jan-22
L-028-2022/0	Forlino, Antonella		Ultragenyx Pharmaceutical, Inc.	25-Jan-22
L-028-2022/0	Marini, Joan Carol		Ultragenyx Pharmaceutical, Inc.	25-Jan-22

NIH Patent Licensing Activities
 NICHD
 February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-207-2018/0	Chou, Janice Yang	(b) (4)	Generation Bio	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-138-1993/2	Crouch, Robert J.	(b) (6)	Agilent Technologies, Inc.	10-Feb-22						
L-132-2004/2	Klein, David C.		Santa Cruz Biotechnology Inc	11-Feb-22						
L-132-2004/2	Moffett, John R		Santa Cruz Biotechnology Inc	11-Feb-22						
L-132-2004/2	Namboodiri, Aryan M		Santa Cruz Biotechnology Inc	11-Feb-22						
L-132-2004/2	Roseboom, Patrick		Santa Cruz Biotechnology Inc	11-Feb-22						
L-132-2004/2	Weller, Joan		Santa Cruz Biotechnology Inc	11-Feb-22						
L-215-2014/0	Bridson, William E.		Quest Diagnostics, Inc.	15-Feb-22						
L-215-2014/0	Hertz, Roy		Quest Diagnostics, Inc.	15-Feb-22						
L-215-2014/0	Kingfield, Joyce G.		Quest Diagnostics, Inc.	15-Feb-22						
L-215-2014/0	Kohler, Peter O		Quest Diagnostics, Inc.	15-Feb-22						
L-192-2021/0	Westphal, Heinrich		Morphic Therapeutic	16-Feb-22						
L-172-2019/0	Romero, Roberto		Genesis Theranostix Ltd.,	21-Feb-22						
L-018-1999/1	Dawid, Igor		Millipore Sigma	22-Feb-22						
L-018-1999/1	Karavanov, Alex A.		Millipore Sigma	22-Feb-22						
L-075-2014/0	Huang, Freesia		Millipore Sigma	22-Feb-22						
L-075-2014/0	Huang, Kuo-Ping		Millipore Sigma	22-Feb-22						
L-180-2014/0	Dey, Anup K		Millipore Sigma	22-Feb-22						
L-180-2014/0	Ozato Dawid, Keiko		Millipore Sigma	22-Feb-22						
L-242-2015/0	Buonanno, Andres		Millipore Sigma	22-Feb-22						
L-242-2015/0	Karavanov, Irina		Millipore Sigma	22-Feb-22						
L-242-2015/0	Vullhorst, Detlef		Millipore Sigma	22-Feb-22						
L-244-2015/0	Buonanno, Andres		EMD Millipore Corp.	22-Feb-22						
L-244-2015/0	Vullhorst, Detlef		EMD Millipore Corp.	22-Feb-22						
L-079-2018/0	Buonanno, Andres		Millipore Sigma	22-Feb-22						
L-079-2018/0	Vullhorst, Detlef		Millipore Sigma	22-Feb-22						
L-033-1997/2	Dressler, Gregory R.		Biologend, Inc	23-Feb-22						

NIH Patent Licensing Activities
 NICHD
 March 2022

License	Inventor	Inventor		Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
		Share %	Licensee							
L-002-2009/1	Dressler, Gregory R.	(b) (4)	Life Tech	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-204-2002/2	Chumakov, Ekaterina	(b) (6)	Novus Biologicals, LLC	4-Mar-22						
L-204-2002/2	McDonald, John		Novus Biologicals, LLC	4-Mar-22						
L-204-2002/2	Woodgate, Roger		Novus Biologicals, LLC	4-Mar-22						
L-240-2002/2	Deligiannidis, Kristina M Galarneau		Novus Biologicals Inc	4-Mar-22						
L-240-2002/2	Klein, David C.		Novus Biologicals Inc	4-Mar-22						
L-240-2002/2	(b) (4)		Novus Biologicals Inc	4-Mar-22						
L-240-2002/2	Weller, Joan		Novus Biologicals Inc	4-Mar-22						
L-313-2019/0	NICHD		Circumvent Pharmaceuticals, Inc.	18-Mar-22						
					\$484,463.34	\$107,459.63	\$591,922.97		\$128,625.82	\$463,297.15

NIH Patent Licensing Activities
NIDA
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NIDA
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIDA
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-067-2021/0	Backman, Cristina M	(b) (4)	Cajal Neuroscience, Inc.	10-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-067-2021/0	Tomac, Andreas C	(b) (6)	Cajal Neuroscience, Inc.	10-Dec-21						

NIH Patent Licensing Activities
NIDA
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-220-2017/1	Kumar, Vivek	(b) (4)	Braeburn Pharmaceuticals Inc.	3-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-220-2017/1	Newman, Amy H.	(b) (6)	Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-220-2017/1	Shaik, Anerbasha		Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-245-2017/1	Cao, Jianjing		Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-245-2017/1	Cyriac, George C.		Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-245-2017/1	Grundt, Peter		Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-245-2017/1	Newman, Amy H.		Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-245-2017/1	(b) (4)		Braeburn Pharmaceuticals Inc.	3-Jan-22						
L-162-2016/3	Rice, Kenner C.		Inversago Pharma Inc.	19-Jan-22						

Note: L-162-2016/3 split between NIAAA; NIDA

NIH Patent Licensing Activities
NIDA
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-070-2003/2	Wise, Roy A	(b) (4)	Brainsway, Inc.	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-070-2003/2	Zangen, Abraham	(b) (6)	Brainsway, Inc.	1-Feb-22						
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>										
L-070-2003/2	NIDA		Brainsway, Inc.	1-Feb-22						
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>										

NIH Patent Licensing Activities

NIDA

March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-070-2003/2	Wise, Roy A	(b) (4)	Brainsway, Inc.	4-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-070-2003/2	Zangen, Abraham	(b) (6)	Brainsway, Inc.	4-Mar-22						
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>										
L-070-2003/2	Wise, Roy A		Brainsway, Inc.	14-Mar-22						
L-070-2003/2	Zangen, Abraham		Brainsway, Inc.	14-Mar-22						
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>										
L-220-2017/1	NIDA		Braeburn Pharmaceuticals Inc.	15-Mar-22						
L-055-2020/0	Backman, Cristina M	(b) (4)	Kallyope, Inc	21-Mar-22						
L-055-2020/0	Tomac, Andreas C	(b) (6)	Kallyope, Inc	21-Mar-22						
L-186-2020/0	Backman, Cristina M		Maplight Therapeutics	21-Mar-22						
L-186-2020/0	Tomac, Andreas C		Maplight Therapeutics	21-Mar-22						
L-250-2018/1	NIDA		Hello Bio Ltd.	24-Mar-22						
<i>Note: L-250-2018/1 split between NIDA; NINDS</i>										

\$110,932.79	\$29,786.36	\$140,719.15	\$31,333.43	\$109,385.72
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NIH Patent Licensing Activities
NIDCD
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-152-2021/0	NIDCD		VegaVect, Inc.	14-Oct-21						(b) (3) (A), (b) (4)

Note: L-152-2021/0 split between NEI; NIDCD

NIH Patent Licensing Activities
NIDCD
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-152-2021/0	Bush, Ronald Avery	(b) (4)	VegaVect, Inc.	12-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-152-2021/0	Sieving, Paul Albert	(b) (6)	VegaVect, Inc.	12-Nov-21						
L-152-2021/0	Song, Hongman		VegaVect, Inc.	12-Nov-21						
L-152-2021/0	Zeng, Yong		VegaVect, Inc.	12-Nov-21						

Note: L-152-2021/0 split between NEI; NIDCD

NIH Patent Licensing Activities
NIDCD
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-078-2018/0	NIDCD		miRecule	14-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-078-2018/0	Chen, Zhong	(b) (4)	miRecule	14-Dec-21						
L-078-2018/0	Cheng, Hui	(b) (6)	miRecule	14-Dec-21						
L-078-2018/0	Saleh, Anthony		miRecule	14-Dec-21						
L-078-2018/0	Van Waes, Carter		miRecule	14-Dec-21						
L-078-2018/0	Chen, Zhong		miRecule	14-Dec-21						
L-078-2018/0	Cheng, Hui		miRecule	14-Dec-21						
L-078-2018/0	Saleh, Anthony		miRecule	14-Dec-21						
L-078-2018/0	Van Waes, Carter		miRecule	14-Dec-21						

NIH Patent Licensing Activities
NIDCD
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-111-2006/0	NIDCD		ICAD Inc	19-Jan-22						(b) (3) (A), (b) (4)
<i>Note: L-111-2006/0 split between CC; CIT; NIDCD</i>										

NIH Patent Licensing Activities
NIDCD
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-179-2014/0	Montcouquiol, Mireille	(b) (4), (b) (6)	Millipore Sigma	22-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-154-2016/0	Griffith, Andrew J.		Millipore Sigma	22-Feb-22						
L-154-2016/0	Labay, Valentia		Millipore Sigma	22-Feb-22						
L-154-2016/0	Makishima, Tomoko		Millipore Sigma	22-Feb-22						

NIH Patent Licensing Activities
NIDCD
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-111-2006/0	Selbie, W. Scott	(b) (4), (b) (6)	ICAD Inc	3-Mar-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-111-2006/0 split between CC; CIT; NIDCD</i>										
L-152-2021/0	Bush, Ronald Avery	(b) (4)	VegaVect, Inc.	29-Mar-22						
L-152-2021/0	Sieving, Paul Albert	(b) (6)	VegaVect, Inc.	29-Mar-22						
L-152-2021/0	Song, Hongman		VegaVect, Inc.	29-Mar-22						
L-152-2021/0	Zeng, Yong		VegaVect, Inc.	29-Mar-22						
<i>Note: L-152-2021/0 split between NEI; NIDCD</i>										

\$61,266.94	\$19,873.55	\$81,140.49	\$18,010.54	\$63,129.95
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NIH Patent Licensing Activities
NIDCR
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-113-2000/0	Adler, Jon Elliot	(b) (4)	University of California	5-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-113-2000/0	Hoon, Mark	(b) (6)	University of California	5-Oct-21						
L-113-2000/0	Ryba, Nicholas		University of California	5-Oct-21						
L-008-2010/0	Erlenbach, Isolde		Regents Univ California	5-Oct-21						
L-008-2010/0	Hoon, Mark		Regents Univ California	5-Oct-21						
L-008-2010/0	Ryba, Nicholas		Regents Univ California	5-Oct-21						
L-152-2002/3	Leppla, Stephen H.		Emergent BioDefense	27-Oct-21						
L-152-2002/3	Park, Sukjoon		Emergent BioDefense	27-Oct-21						
L-152-2002/3	Quinn, Conrad P.		Emergent BioDefense	27-Oct-21						
L-152-2002/3	Singh, Yogendra		Emergent BioDefense	27-Oct-21						

Note: L-152-2002/3 split between NIAID; NIDCR

NIH Patent Licensing Activities
NIDCR
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-182-2017/0	Kulkarni, Ashok	(b) (4)	Freeline Therapeutics Limited	2-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-182-2017/0	Ohshima, Toshio	(b) (6)	Freeline Therapeutics Limited	2-Nov-21						
L-066-2005/1	Siraganian, Reuben		President and Fellows of Harvard College	9-Nov-21						
L-115-2020/0	NIDCR		Kriya Therapeutics, Inc.	16-Nov-21						
L-152-2017/0	Akiyama, Steven	(b) (4)	Millipore Sigma	18-Nov-21						
L-152-2017/0	Yamada, Kenneth	(b) (6)	Millipore Sigma	18-Nov-21						
L-152-2017/0	Yamada, Susan Sleeper		Millipore Sigma	18-Nov-21						

Note: L-182-2017/0 split between NIDCR; NINDS

Note: L-066-2005/1 split between NIAMS; NIDCR

NIH Patent Licensing Activities
NIDCR
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-032-2011/1	NIDCR		Sorrento Therapeutics, Inc	14-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-076-2008/0	Hsu, Su-Cheng Dana	(b) (4)	Emergent Product Development Gaithersbur	15-Dec-21						
L-076-2008/0	Leppla, Stephen H.	(b) (6)	Emergent Product Development Gaithersbur	15-Dec-21						
L-076-2008/0	Rosovitz, Mary Jo		Emergent Product Development Gaithersbur	15-Dec-21						

Note: L-076-2008/0 split between NICHD; NIDCR; NIDDK

NIH Patent Licensing Activities
NIDCR
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License	Inventor Awards January	Net Remaining to IC
								Cumulative Income		
L-171-2008/1	Siraganian, Reuben	(b) (4), (b) (6)	BD Biosciences	6-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-111-2017/0	Akiyama, Steven		BD Biosciences	6-Jan-22						
L-111-2017/0	Yamada, Kenneth		BD Biosciences	6-Jan-22						
L-181-2014/0	Burbelo, Peter D.		InBios International Inc	12-Jan-22						
<i>Note: L-181-2014/0 split between NIAID; NIDCR</i>										
L-248-2015/1	Burbelo, Peter D.	(b) (4), (b) (6)	InBios International, Inc.	12-Jan-22						
L-248-2015/1	Iadarola, Michael J.		InBios International, Inc.	12-Jan-22						
<i>Note: L-248-2015/1 split between NIAID; NIDCR</i>										
L-132-2020/0	Moayeri, Mahtab	(b) (4), (b) (6)	Absolute Antibody Ltd.	14-Jan-22						
<i>Note: L-132-2020/0 split between NIAID; NICHD; NIDCR</i>										
L-072-2010/0	Gronthos, Stan	(b) (4)	Mesoblast Inc.	18-Jan-22						
L-072-2010/0	Miura, Masako	(b) (6)	Mesoblast Inc.	18-Jan-22						
L-072-2010/0	Robey, Pamela G.		Mesoblast Inc.	18-Jan-22						
L-072-2010/0	Seo, Byoung-Moo		Mesoblast Inc.	18-Jan-22						
L-072-2010/0	Shi, Songtao		Mesoblast Inc.	18-Jan-22						
L-072-2010/0	NIDCR		Mesoblast Inc.	20-Jan-22						
L-074-2021/1	Chiorini, John A.	(b) (4), (b) (6)	Atsena Therapeutics, Inc	21-Jan-22						
L-074-2021/1	Pasquale, Giovanni Di		Atsena Therapeutics, Inc	21-Jan-22						
L-048-2003/1	Elkin, Michael		Lees Pharmaceutical (HK) LTD	24-Jan-22						
L-048-2003/1	Kleinman, Hynda		Lees Pharmaceutical (HK) LTD	24-Jan-22						
L-048-2003/1	Philp, Deborah		Lees Pharmaceutical (HK) LTD	24-Jan-22						
L-115-2020/0	Chiorini, John A.		Kriya Therapeutics, Inc.	24-Jan-22						
L-115-2020/0	Pasquale, Giovanni Di		Kriya Therapeutics, Inc.	24-Jan-22						

NIH Patent Licensing Activities
NIDCR
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License	Inventor Awards February	Net Remaining to IC
								Cumulative Income		
L-102-2009/1	Siraganian, Reuben	(b) (4), (b) (6)	Bio-Rad AbD	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-078-2015/0	Chiorini, John A.		Spark Therapeutics, Inc.	8-Feb-22						
L-078-2015/0	Kaludov, Nikola		Spark Therapeutics, Inc.	8-Feb-22						

L-153-2007/2	Fisher, Larry	(b) (4), (b) (6)	Santa Cruz Biotech., Inc.	11-Feb-22	(b) (3) (A), (b) (4), (b) (6)
L-153-2007/2	Fisher, Larry		Santa Cruz Biotech., Inc.	11-Feb-22	
L-115-2000/2	Leppla, Stephen H.		List Biological Laboratories, Inc.	15-Feb-22	
<i>Note: L-115-2000/2 split between NIAID; NIDCR</i>					
L-343-2001/0	Keith, Jerry M	(b) (4),	List Biological Laboratories, Inc.	15-Feb-22	
L-343-2001/0	Merkel, Todd J.	(b) (6)	List Biological Laboratories, Inc.	15-Feb-22	
L-343-2001/0	Yang, Xiaoming		List Biological Laboratories, Inc.	15-Feb-22	
L-233-2014/0	Fisher, Larry		Millipore Sigma	22-Feb-22	
L-152-2017/0	Akiyama, Steven		Millipore Sigma	22-Feb-22	
L-152-2017/0	Yamada, Kenneth		Millipore Sigma	22-Feb-22	
L-152-2017/0	Yamada, Susan Sleeper		Millipore Sigma	22-Feb-22	

NIH Patent Licensing Activities
NIDCR
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-115-2000/2	Leppla, Stephen H.	(b) (4), (b) (6)	List Biological Laboratories, Inc.	3-Mar-22	(b) (3) (A), (b) (4), (b) (6)					
<i>Note: L-115-2000/2 split between NIAID; NIDCR</i>										
L-074-2021/1	Chiorini, John A.		Atsena Therapeutics, Inc	3-Mar-22						
L-074-2021/1	Pasquale, Giovanni Di		Atsena Therapeutics, Inc	3-Mar-22						
L-074-2021/1	Chiorini, John A.		Atsena Therapeutics, Inc	3-Mar-22						
L-074-2021/1	Pasquale, Giovanni Di		Atsena Therapeutics, Inc	3-Mar-22						
L-171-2008/1	Siraganian, Reuben		BD Biosciences	8-Mar-22						
L-111-2017/0	Akiyama, Steven		BD Biosciences	8-Mar-22						
L-111-2017/0	Yamada, Kenneth		BD Biosciences	8-Mar-22						
L-181-2014/0	Burbelo, Peter D.		InBios International Inc	15-Mar-22						
<i>Note: L-181-2014/0 split between NIAID; NIDCR</i>										
L-024-2017/1	Fisher, Larry	(b) (4), (b) (6)	KeraFAST	16-Mar-22						
					\$334,839.09	\$38,893.29	\$373,732.38		\$81,260.25	\$292,472.13

NIH Patent Licensing Activities
NIDDK
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-324-2017/1	Jacobson, Kenneth A	(b) (4), (b) (6)	Future Medicine Co., Ltd.	14-Oct-21						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIDDK
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIDDK
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-076-2008/0	Ramirez, Delia	(b) (4), (b) (6)	Emergent Product Development Gaithersbur	15-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-076-2008/0	Shiloach, Joseph	(b) (6)	Emergent Product Development Gaithersbur	15-Dec-21						
<i>Note: L-076-2008/0 split between NICHD; NIDCR; NIDDK</i>										
L-120-2018/1	Rehermann, Barbara	(b) (4), (b) (6)	Taconic Biosciences, Inc.	20-Dec-21						
L-120-2018/1	Rosshart, Stephan Patrick	(b) (6)	Taconic Biosciences, Inc.	20-Dec-21						
L-283-2017/0	Jacobson, Kenneth A	(b) (4), (b) (6)	Tocris Cookson Ltd.	29-Dec-21						
L-283-2017/0	Tosh, Dilip K.	(b) (4), (b) (6)	Tocris Cookson Ltd.	29-Dec-21						

NIH Patent Licensing Activities
NIDDK
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-143-2007/2	Schechter, Alan N.	(b) (4), (b) (6)	Hope Pharmaceuticals	18-Jan-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-143-2007/2 split between CC; NHLBI; NIDDK</i>										
L-159-2007/2	Schechter, Alan N.	(b) (4), (b) (6)	Hope Pharmaceuticals	18-Jan-22						
<i>Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS</i>										
L-044-2009/0	GAO, ZHANGUO	(b) (4), (b) (6)	Leiden University	18-Jan-22						
L-044-2009/0	Jacobson, Kenneth A	(b) (6)	Leiden University	18-Jan-22						
L-033-2019/0	Goldsmith, Paul K	(b) (4), (b) (6)	Bio-Techne Corporation	31-Jan-22						
L-033-2019/0	Spiegel, Allen M.	(b) (4), (b) (6)	Bio-Techne Corporation	31-Jan-22						

NIH Patent Licensing Activities
NIDDK
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-075-2017/1	Jacobson, Kenneth A	(b) (4)	Biolntervene Inc.	10-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-075-2017/1	Melman, Artem	(b) (6)	Biolntervene Inc.	10-Feb-22						
L-075-2017/1	(b) (4)		Biolntervene Inc.	10-Feb-22						
L-075-2017/1	Tosh, Dilip K.		Biolntervene Inc.	10-Feb-22						
L-145-2019/0	Schechter, Alan N.		Globin Solutions, Inc	10-Feb-22						
<i>Note: L-145-2019/0 split between CC; NHLBI; NIDDK; NINDS</i>										
L-242-2013/0	Proia, Richard L	(b) (4), (b) (6)	Millipore Sigma	22-Feb-22						
L-001-2014/1	Proia, Richard L		Millipore Sigma	22-Feb-22						
L-173-2015/3	Ge, Kai		Millipore Sigma	22-Feb-22						
L-173-2015/3	Lee, Ji-Eun		Millipore Sigma	22-Feb-22						
L-192-2016/0	Dean, Jurrien		EMD Milliore Corp	22-Feb-22						
L-192-2016/0	East, Iain		EMD Milliore Corp	22-Feb-22						
L-149-2017/0	Oral, Elif A.		Aegerion Pha rmaceuticals, Inc.	25-Feb-22						
L-149-2017/0	Taylor, Simeon		Aegerion Pha rmaceuticals, Inc.	25-Feb-22						

NIH Patent Licensing Activities
NIDDK
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-033-2019/0	Goldsmith, Paul K	(b) (4)	Bio-Techne Corporation	4-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-033-2019/0	Spiegel, Allen M.	(b) (6)	Bio-Techne Corporation	4-Mar-22						
L-155-2007/2	Daly, (b) (6) John W		Latoxan S.A.S.	21-Mar-22						
					\$115,555.12	\$0.00	\$115,555.12		\$35,391.43	\$80,163.69

NIH Patent Licensing Activities
NIEHS
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-033-1998/2	Prasad, Rajendra	(b) (4)	NeoMarkers, Inc.	14-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-033-1998/2	Wilson, (b) (6) Samuel H.	(b) (6)	NeoMarkers, Inc.	14-Dec-21						
L-244-2016/1	(b) (4)		Sumitomo Pharmaceuticals	15-Dec-21						
L-244-2016/1	Moore, Rickie		Sumitomo Pharmaceuticals	15-Dec-21						
L-244-2016/1	Negishi, Masahiko		Sumitomo Pharmaceuticals	15-Dec-21						

NIH Patent Licensing Activities
NIEHS
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-144-2004/3	Ehrenshaft, Marilyn I	(b) (4)	Cayman Chemical Company	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-144-2004/3	Mason, Ronald P.	(b) (6)	Cayman Chemical Company	1-Feb-22						
L-010-2005/4	DiAugustine, Richard P		Millipore Sigma	22-Feb-22						
L-010-2005/4	Teng, Christina T.		Millipore Sigma	22-Feb-22						

L-021-2015/0	Bradbury, Jennifer Alyce	(b) (4)	EMD Millipore Corp.	22-Feb-22
L-021-2015/0	Graves, Joan P.	(b) (6)	EMD Millipore Corp.	22-Feb-22
L-021-2015/0	Zeldin, Darryl C		EMD Millipore Corp.	22-Feb-22

(b) (3) (A), (b) (4), (b) (6)

**NIH Patent Licensing Activities
NIEHS
March 2022**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-042-2001/3	Beckley, Amy J.	(b) (4)	Pierce Biotechnology	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-042-2001/3	Cidlowski, John A.	(b) (6)	Pierce Biotechnology	1-Mar-22						
L-066-2018/0	Fang, Yi		KeraFAST	16-Mar-22						
L-066-2018/0	Li, Xiaoling		KeraFAST	16-Mar-22						
					\$21,635.64	\$0.00	\$21,635.64		\$14,410.64	\$7,225.00

NIH Patent Licensing Activities
NIMH
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-018-2010/0	Manji, Hussein K.	(b) (4)	Mount Sinai Med Cntr	8-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-018-2010/0	Zarate, Carlos A.	(b) (6)	Mount Sinai Med Cntr	8-Oct-21						

NIH Patent Licensing Activities
NIMH
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-261-2016/0	Eiden, Maribeth V.	(b) (4)	Fred Hutchinson Cancer Research Center	9-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-261-2016/0	Wilson, Carolyn A.	(b) (6)	Fred Hutchinson Cancer Research Center	9-Nov-21						
L-066-2021/0	Cohen, Robert M.		Codiak BioSciences, Inc.	19-Nov-21						
L-066-2021/0	Ye, Daniel		Codiak BioSciences, Inc.	19-Nov-21						

NIH Patent Licensing Activities
NIMH
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-252-2020/1	Ginns, Edward I.	(b) (4)	GT Gain Therapeutics SA	29-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-252-2020/1	LaMarca, (b) (6) Mary	(b) (6)	GT Gain Therapeutics SA	29-Dec-21						

NIMH
January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-185-2020/0	Drevets, Wayne C	(b) (4)	Defender Pharmaceuticals, Inc	3-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-185-2020/0	Furey, Maura L.	(b) (6)	Defender Pharmaceuticals, Inc	3-Jan-22						
L-160-2021/0	Cohen, Robert M.		Biogen	6-Jan-22						
L-160-2021/0	Ye, Daniel		Biogen	6-Jan-22						
L-160-2021/0	Cohen, Robert M.		Biogen	10-Jan-22						
L-160-2021/0	Ye, Daniel		Biogen	10-Jan-22						
L-213-1994/1	Mahan, Lawrence C.		Eurofins Panlabs	20-Jan-22						
<i>Note: L-213-1994/1 split between NIMH; NINDS</i>										
L-050-2011/4	Dold, George R.		Passy-Muir	24-Jan-22						
L-050-2011/4	Morgan, Newlin T.		Passy-Muir	24-Jan-22						

Note: L-050-2011/4 split between NIMH; NINDS

NIH Patent Licensing Activities
NIMH
February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-274-1997/1	Jacobowitz David, (b) (6)	(b) (4)	Millipore Sigma	22-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-274-1997/1	Winsky, Lois	(b) (6)	Millipore Sigma	22-Feb-22						
L-327-2002/0	Kowalak, Jeffrey A.		Shimadzu Corp.	24-Feb-22						
L-327-2002/0	Markey (b) (6) Sanford P.		Shimadzu Corp.	24-Feb-22						
L-327-2002/0	Masuda, Junichi		Shimadzu Corp.	24-Feb-22						
L-327-2002/0	Unsworth, Edward J.		Shimadzu Corp.	24-Feb-22						

NIH Patent Licensing Activities
NIMH
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-018-2010/0	Manji, Hussein K.	(b) (4)	Mount Sinai Med Cntr	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-018-2010/0	Zarate, Carlos A.	(b) (6)	Mount Sinai Med Cntr	1-Mar-22						
L-032-2021/0	Ginns, Edward I.		GlaxoSmithKline Research & Development L	16-Mar-22						
L-032-2021/0	LaMarca, (b) (6) Mary		GlaxoSmithKline Research & Development L	16-Mar-22						
					\$714,529.05	\$0.00	\$714,529.05		\$178,565.56	\$535,963.49

NIH Patent Licensing Activities
NINDS
October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-185-2004/1	Hou, Jean	(b) (4)	Mubio Products BV	4-Oct-21						(b) (3) (A), (b) (4), (b) (6)
L-185-2004/1	Major, Eugene O	(b) (6)	Mubio Products BV	4-Oct-21						
L-185-2004/1	Messam, Conrad A		Mubio Products BV	4-Oct-21						
L-096-2018/2	Wang, Chunxin		Mitokinin	19-Oct-21						
L-096-2018/2	Youle, Richard J.		Mitokinin	19-Oct-21						
L-007-2019/0	Hsu, Yite		Abcam plc	27-Oct-21						
L-007-2019/0	Youle, Richard J.		Abcam plc	27-Oct-21						

NIH Patent Licensing Activities
NINDS
November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-182-2017/0	Brady, (b) (6) Roscoe O	(b) (4)	Freeline Therapeutics Limited	2-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-182-2017/0	Murray, Gary J	(b) (6)	Freeline Therapeutics Limited	2-Nov-21						
<i>Note: L-182-2017/0 split between NIDCR; NINDS</i>										
L-132-2017/0	Warach, Steven J.		CereDx Inc.	12-Nov-21						
<i>Note: L-132-2017/0 split between NIA; NINDS; NINR</i>										
L-130-2002/1	Hsu, Yite		Santa Cruz Biotechnology Inc	23-Nov-21						
L-130-2002/1	Youle, Richard J.		Santa Cruz Biotechnology Inc	23-Nov-21						

NIH Patent Licensing Activities
NINDS
December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-144-2008/1	Hou, Jean	(b) (4)	Affymetrix, Inc.	21-Dec-21						(b) (3) (A), (b) (4), (b) (6)
L-144-2008/1	Major, Eugene O	(b) (6)	Affymetrix, Inc.	21-Dec-21						
L-144-2008/1	Messam, Conrad A		Affymetrix, Inc.	21-Dec-21						
L-008-2008/1	Hsu, Yite		Biologend	29-Dec-21						
L-008-2008/1	Youle, Richard J.		Biologend	29-Dec-21						
L-058-2013/2	Hou, Jean		BioLegend	29-Dec-21						
L-058-2013/2	Major, Eugene O		BioLegend	29-Dec-21						
L-058-2013/2	Messam, Conrad A		BioLegend	29-Dec-21						
L-198-2017/0	Dobersen, Michael J		BioLegend	29-Dec-21						

L-198-2017/0	Hammer, Jeffrey A.	(b) (4)	BioLegend	29-Dec-21	(b) (3) (A), (b) (4), (b) (6)
L-198-2017/0	Noronha, Antonio B	(b) (6)	BioLegend	29-Dec-21	
L-198-2017/0	Quarles (b) (6) Richard H.	(b) (6)	BioLegend	29-Dec-21	

NIH Patent Licensing Activities

NINDS

January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-182-2004/2	Hou, Jean	(b) (4)	Novus Biologicals Inc	4-Jan-22						(b) (3) (A), (b) (4), (b) (6)
L-182-2004/2	Major, Eugene O	(b) (6)	Novus Biologicals Inc	4-Jan-22						
L-182-2004/2	Messam, Conrad A	(b) (6)	Novus Biologicals Inc	4-Jan-22						
L-002-2019/0	Lee, Myoung Hwa	(b) (6)	Geneuro SA	5-Jan-22						
L-002-2019/0	Li, Wenxue	(b) (6)	Geneuro SA	5-Jan-22						
L-002-2019/0	Nath, Avindra	(b) (6)	Geneuro SA	5-Jan-22						
L-002-2019/0	Steiner, Joseph Perry	(b) (6)	Geneuro SA	5-Jan-22						
L-084-1997/4	Hsu, Yite	(b) (6)	BD Biosciences	6-Jan-22						
L-084-1997/4	Youle, Richard J.	(b) (6)	BD Biosciences	6-Jan-22						
L-235-1997/3	Hsu, Yite	(b) (6)	Southern Biotechnology Associates, Inc.	14-Jan-22						
L-235-1997/3	Youle, Richard J.	(b) (6)	Southern Biotechnology Associates, Inc.	14-Jan-22						
L-159-2007/2	Oldfield, (b) (6) Edward H.	(b) (6)	Hope Pharmaceuticals	18-Jan-22						
L-159-2007/2	Pluta, Ryszard M	(b) (6)	Hope Pharmaceuticals	18-Jan-22						
<i>Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS</i>										
L-213-1994/1	McVittie, Loris D.	(b) (4)	Eurofins Panlabs	20-Jan-22						
L-213-1994/1	Monsma, Jr., Frederick J.	(b) (6)	Eurofins Panlabs	20-Jan-22						
L-213-1994/1	Sibley, David R.	(b) (6)	Eurofins Panlabs	20-Jan-22						
<i>Note: L-213-1994/1 split between NIMH; NINDS</i>										
L-050-2011/4	Humbert, Ianessa A	(b) (6)	Passy-Muir	24-Jan-22						
L-050-2011/4	Lowell, Soren Y	(b) (6)	Passy-Muir	24-Jan-22						
L-050-2011/4	Ludlow, Christy L.	(b) (6)	Passy-Muir	24-Jan-22						
L-050-2011/4	Poletto, Christopher J.	(b) (6)	Passy-Muir	24-Jan-22						
<i>Note: L-050-2011/4 split between NIMH; NINDS</i>										
L-007-2019/0	Hsu, Yite	(b) (6)	Abcam plc	27-Jan-22						
L-007-2019/0	Youle, Richard J.	(b) (6)	Abcam plc	27-Jan-22						

NIH Patent Licensing Activities

NINDS

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
L-070-2003/2	Hallett, Mark	(b) (4)	Brainsway, Inc.	1-Feb-22						(b) (3) (A), (b) (4), (b) (6)
L-070-2003/2	Miranda, Pedro	(b) (6)	Brainsway, Inc.	1-Feb-22						

				(b) (3) (A), (b) (4), (b) (6)
L-070-2003/2	Roth, Yiftach	(b) (4)	Brainsway, Inc.	1-Feb-22
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>				
L-070-2003/2	NINDS	(b) (6)	Brainsway, Inc.	1-Feb-22
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>				
L-145-2019/0	Oldfield, (b) (6) Edward H.	(b) (4)	Globin Solutions, Inc	10-Feb-22
L-145-2019/0	Pluta, Ryszard M	(b) (6)	Globin Solutions, Inc	10-Feb-22
<i>Note: L-145-2019/0 split between CC; NHLBI; NIDDK; NINDS</i>				
L-208-2001/2	Hou, Jean	(b) (4)	Millipore Sigma	11-Feb-22
L-208-2001/2	Major, Eugene O	(b) (6)	Millipore Sigma	11-Feb-22
L-208-2001/2	Messam, Conrad A		Millipore Sigma	11-Feb-22
L-208-2001/3	Hou, Jean		Millipore Sigma	11-Feb-22
L-208-2001/3	Major, Eugene O		Millipore Sigma	11-Feb-22
L-208-2001/3	Messam, Conrad A		Millipore Sigma	11-Feb-22
L-130-2002/1	Hsu, Yite		Santa Cruz Biotechnology Inc	11-Feb-22
L-130-2002/1	Youle, Richard J.		Santa Cruz Biotechnology Inc	11-Feb-22
L-130-2002/1	Hsu, Yite		Santa Cruz Biotechnology Inc	11-Feb-22
L-130-2002/1	Youle, Richard J.		Santa Cruz Biotechnology Inc	11-Feb-22
L-123-2004/2	Hsu, Yite		Santa Cruz Biotechnology Inc	11-Feb-22
L-123-2004/2	Youle, Richard J.		Santa Cruz Biotechnology Inc	11-Feb-22
L-123-2004/2	Hsu, Yite		Santa Cruz Biotechnology Inc	11-Feb-22
L-123-2004/2	Youle, Richard J.		Santa Cruz Biotechnology Inc	11-Feb-22
L-091-1998/3	Hsu, Yite		NeoMarkers, Inc.	15-Feb-22
L-091-1998/3	Youle, Richard J.		NeoMarkers, Inc.	15-Feb-22
L-012-2001/2	Hsu, Yite		NeoMarkers, Inc.	15-Feb-22
L-012-2001/2	Youle, Richard J.		NeoMarkers, Inc.	15-Feb-22
L-309-2002/2	Hou, Jean		Millipore Sigma	22-Feb-22
L-309-2002/2	Major, Eugene O		Millipore Sigma	22-Feb-22
L-309-2002/2	Messam, Conrad A		Millipore Sigma	22-Feb-22
L-264-2014/0	Gainer, Harold		Millipore Sigma	22-Feb-22
L-091-2015/0	Hsu, Yite		Millipore Sigma	22-Feb-22
L-091-2015/0	Youle, Richard J.		Millipore Sigma	22-Feb-22
L-166-2015/0	Badger, John D.		EMD Millipore Corporation	22-Feb-22
L-166-2015/0	Bemben, Michael A.		EMD Millipore Corporation	22-Feb-22
L-166-2015/0	Roche, Katherine W.		EMD Millipore Corporation	22-Feb-22
L-065-2003/2	Hsu, Yite		Biolegend	23-Feb-22
L-065-2003/2	Youle, Richard J.		Biolegend	23-Feb-22
L-008-2008/1	Hsu, Yite		Biolegend	23-Feb-22
L-008-2008/1	Youle, Richard J.		Biolegend	23-Feb-22

L-058-2013/2	Hou, Jean	(b) (4)	BioLegend	23-Feb-22
L-058-2013/2	Major, Eugene O	(b) (6)	BioLegend	23-Feb-22
L-058-2013/2	Messam, Conrad A		BioLegend	23-Feb-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NINDS
March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
L-144-2008/1	Hou, Jean	(b) (4)	Affymetrix, Inc.	1-Mar-22						(b) (3) (A), (b) (4), (b) (6)
L-144-2008/1	Major, Eugene O	(b) (6)	Affymetrix, Inc.	1-Mar-22						
L-144-2008/1	Messam, Conrad A		Affymetrix, Inc.	1-Mar-22						
L-070-2003/2	Hallett, Mark		Brainsway, Inc.	4-Mar-22						
L-070-2003/2	Miranda, Pedro		Brainsway, Inc.	4-Mar-22						
L-070-2003/2	Roth, Yiftach		Brainsway, Inc.	4-Mar-22						
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>										
L-182-2004/2	Hou, Jean		Novus Biologicals Inc	4-Mar-22						
L-182-2004/2	Major, Eugene O		Novus Biologicals Inc	4-Mar-22						
L-182-2004/2	Messam, Conrad A		Novus Biologicals Inc	4-Mar-22						
L-050-2021/0	Bharti, Kapil		CellRay, LLC	4-Mar-22						
<i>Note: L-050-2021/0 split between NEI; NINDS</i>										
L-070-2003/2	Hallett, Mark		Brainsway, Inc.	14-Mar-22						
L-070-2003/2	Miranda, Pedro		Brainsway, Inc.	14-Mar-22						
L-070-2003/2	Roth, Yiftach		Brainsway, Inc.	14-Mar-22						
<i>Note: L-070-2003/2 split between NIDA; NINDS</i>										
L-250-2018/1	NINDS		Hello Bio Ltd.	24-Mar-22						
<i>Note: L-250-2018/1 split between NIDA; NINDS</i>										
					\$365,203.25	\$0.00	\$365,203.25		\$108,426.91	\$256,776.34

NIH Patent Licensing Activities

NINR

October 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

November 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-132-2017/0	Barr, Taura L.	(b) (4)	CereDx Inc.	12-Nov-21						(b) (3) (A), (b) (4), (b) (6)
L-132-2017/0	(b) (4)	(b) (6)	CereDx Inc.	12-Nov-21						

Note: L-132-2017/0 split between NIA; NINDS; NINR

NIH Patent Licensing Activities

NINR

December 2021

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

January 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

February 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

March 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
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(b) (3) (A), (b) (4), (b) (6)

National Institutes of Health

Office of Financial Management

Royalties Semiannual Report -- Payments due to Inventors by IC -- Period ending: September 2022

CC

\$14,118.50

Baecher, Nicolai
Harrison, Adam Patrick
Kwak, Jin Tae
Lay, Nathan Stephan
Liu, Jiamin
Lu, Le
Mollura, Daniel Joseph
Reinhard Roth, Holger
Summers, Ronald
Tsehay, Yohannes Kebede
Wang, Xiaosong
Wood, Bradford J
Xu, Sheng
Xu, Ziyue
Yao, Jianhua

(b) (3) (A), (b)
(4), (b) (6)

CDC

\$145,635.97

Ades, Edwin W.
Albarino, Cesar G.
Amador, Manuel
Anderson, Larry J.
Barrera, Roberto
Bellini, William J.
Bird, Brian H.
Bishop, Henry
Black, Jodi B.
Burns, Cara C.
Campagnolie, Raymond (Ray) P.
Candal, Francisco (Paco) J.
CDC

(b) (3) (A), (b) (4), (b)
(6)

Chang, Gwong-Jen J.
Cox, Nancy J.
Crill, Wayne D.
Davis, Brent S.
Devos, Joshua R.
Donis, Ruben O.
Donlan, Rodney M.
Erdman, Dean D.
Esposito, Joseph J.
Fields, Patricia
Folks, Thomas M
Garcia Lerma, Jose Gerardo
Granade, Timothy C.
Heneine, Walid M.
Hughes, Holly R
Janssen, Robert
Katz, Jacqueline M.
Kew, Olen M.
Kinney, Claire Huang
Kirby, Wayne
Klimov, Alexander I.
Konopka-Anstadt, Jennifer Lynn
Ksiazek, Thomas G.
Leaumont, Collette F.
Lewis, Daniel M.
Lopez, Carlos
Mackay, Andrew J.
McDougal, Steve
McQuiston, John R.
Murga, Ricardo
Murphy, William J.
Nichol, Stuart T.
Olson, Victoria Ann
Otten, Ronald

(b) (3) (A), (b)
(4), (b) (6)

Parekh, Bharat S.
Pau, Chou-Pong
Pellett, Philip E.
Raudabaugh, William M.
Reid, Thomas M.
Roehrig, John T.
Rupprecht, Charles E.
Sanchez, Anthony
Schafer, Millie P.
Schmechel, Detlef
Shaw, Jing
Stephenson, Mark R.
Summer, John
Tamin, Azibi
Thibodeaux, Brett A.
Tong, Suxiang
Tsou, Cecelia
Vincent, Annelet S
Wagar, Nicholas
Wang, Zhongde
Wei, Xierong
Wu, Xianfu
Yamamoto, Masahiro
Yang, Chunfu (Dustin)
Yang, Yong
Zhou, Zhiyong

CIT

Cheng, Ruida
McAuliffe, Matthew

FDA

Donnelly, Raymond P.
Falgout, Barry
Markoff, Lewis
Petricoin, Emanuel

(b) (3) (A), (b) (4),
(b) (6)

\$5,662.38

(b) (3) (A), (b)
(4), (b) (6)

NCATS

\$226,127.59

Alimardanov, Asaf R
Bantukallu, Ganesha Rai
Brimacombe, Kyle R.
Grewal, Gurmit S
Hall, Matthew D.
Hu, Xin
Huang, Junfeng
Huang, Wenwei
Huang, Xiuli
Jadhav, Ajit P.
Jiang, Jian-kang
Kouznetsova, Jennifer Lynn
Lee, Arthur
Maloney, David
Marugan, Juan J.
McKew, John C.
Morris, Patrick
Mott, Bryan T.
Patel, Paresma Rasiklal
Sanderson, Philip Edward
Shamim, Khalida
Shen, Min
Simeonov, Anton
Tawa, Gregory
Thomas, Craig J.
Urban, Daniel
Xu, Xin
Yang, Shyh-Ming
Zheng, Wei

(b) (3) (A), (b)
(4), (b) (6)

NCI

\$1,524,133.55

Aaronson, Stuart A.
Adhya, Sankar Lal
Alimandi, Maurizio

(b) (3) (A), (b) (4),
(b) (6)

Austin, Faye C.
Baba, Masaya
Barry, Todd
Barsov, Eugene V
Baskar, Sivasubramanian
Beyer, Rachel K. B.
Bonner, William M
Bonomi, Carrie A.
Borgel, Suzanne D.
Buck, Christopher
Burgess, Rebecca C.
Bustin, Michael
Cafri, Gal

(b) (4)

Chang, Nancy T.
Cheuk, Adam Tai Chi
Choyke, Peter L
Colcher, David
Columbus, John Milton
Copeland, Neal
Costantino, Nina
Court, Donald
Crowl, Robert
Datta, Simanti
Deniger, Drew
Dimitrov, Dimiter S.
Dougherty, Kelly
Dudley, Mark
Ellis, Hilary Moyed
Emmert-Buck, Michael R.
Esposito, Dominic
(b) (6) Donald J. Giard
Felber, Barbara K.
Feldman, Steven A

(b) (3) (A), (b) (4),
(b) (6)

Feng, Mingqian
Finch, Paul W.
Fisher, Amanda G.
Fitzgerald, Peter C.
Fleming, Bryan
Franchini, Genoveffa
Fry, Terry
Gao, Wei
Garges, Susan
Gartner, Jared
Gartner, Suzanne
Gaur, Sonia Sonalee
Gazdar, (b) (6) Adi
Gelboin, (b) (6) Harry
(b) (4)
Giardina, Steven
Gonzalez, Frank J.
Gottesman, Michael M.
Greer, Matthew D.
Greiner, John W.
Gros, Alena
Grose, Carissa L.
Hahn, Beatrice
Hamilton, Thomas C
Hanada, Kenichi
Hand, Patricia H.
Harmon, Stephanie Anne
Haso, Waleed
Hassan, Raffit
Hathcock, Karen
Helman, Lee
Hinrichs, Christian S.
Ho, Mitchell
Hodes, Richard J

(b) (3) (A), (b)
(4), (b) (6)

Hodge, James W.
Holderfield, Matthew T.
Hollingshead, Melinda G.
Hopkins, Ralph F.
(b) (4)
Jakubczak, John L.
Jenkins Copeland, Nancy A
Jensen, Roy A.
Jin, Benjamin Yongzu
Johnson, Bruce E
Kahn, Richard A
Kalyanaraman, Vaniambadi S.
Kawakami, Yutaka
Kaye, Frederic J
Khan, Javed
Khanna, Chand
Khleif, Samir N.
Kim, Heungnam
Kim, Sanghyun
King, Charles R.
Kozlov, Serguei
Kraus, (b) (6) Matthias
Krausz, Kristopher W.
Lam, Norris
LaRochelle, William
Laszlo, Gloria
Lay, Nathan Stephan
Lee, E-Chiang
Levin, Noam
Li, Dan
Li, Nan
Liotta, Lance
Liu, Pentao
Lo, Winifred Margaret



(b) (3) (A), (b) (4),
(b) (6)

Longo, Dan L
Lowery, Frank
Lowy, Douglas R.
Lu, Yong-Chen
Mackall, Crystal L
Makrigiannis, Andrew P.
Malekzadeh, Parisa
Markham, Phillip D.
Marquez, Victor E
Mason, Llewellyn H.
Matsui, Toshimitsu
Medina, Rogelio
Mehralivand, Sherif
Mehta, Arpita I
Merlino, Glenn T.
Mertan, Francesca
Minna, John D.
Misteli, Thomas
Moore, William J.
Muchmore, Brian P.
Neckers, Leonard
Nickerson, Michael L.
Nuti, Marianna
O'Brien, Thomas R
Oie, (b) (6) Herbert K
Onda, Masanori
Orentas, Rimas J.
Ortaldo, John R.
Ott, David E.
Ozols, Robert F
Palena, Claudia
Palmer, Douglas
Paria, Biman
Parkhurst, Maria

(b) (3) (A), (b)
(4), (b) (6)

Parks, Wade P.
Pasetto, Anna
Pass, Harvey I
Pastan, Ira H.
Pastrana, Diana V
Pavlakis, George N
Phung, Yen T.
Pierce, Jacalyn H.
Pinto, Peter A
Popovic, Mikulas
Porter-Gill, Patricia A.
Potter, (b) (6) Michael
Prokunina-Olsson, Ludmila
Qasba, Pradman
Qin, Haiying
Rader, Christoph
Ramakrishna, Sneha
Ramakrishnan, Boopathy
Reddy, E. Premkumar.
Restifo, Nicholas P.
Robbins, Keith
Robbins, Paul F
Roden, Richard B
Rogakou, Efthimia P.
Rosenwald, Andreas
Roukos, Vasileios
Rubin, Jeffrey S
Salahuddin, Syed Z.
Sarngadharan, Mangalasseril
Sausville, Edward
Schiller, John T
Schlom, Jeffrey
Schmidt, Laura S.
Shah, Nirali

(b) (3) (A), (b) (4),
(b) (6)

Sharan, Shyam K
Sharma, Nirmala D.
Shaw, George M
Simone, Nicole L
Snader, Kenneth M
Soppet, Dan
Soutoglou, Evi
Spiese, Paul J
St. Croix, Brad D.
Staudt, Louis M
Stewart, Colin L.
Swaminathan, Srividya
Tang, Zhewei
Tran, Eric
Turbyville, Thomas Jefferson
Turkbey, Ismail B.
Ueda, Kazumitsu
 (b) (4)
 (b) (4)
Varesio, Luigi
Vishnuvajjala, B. Rao
Wakefield, Lalage M
Wang, Herui
Wang, Ling-Mei
Wang, Qiong
Wang, Ruixue
Warming, Soren
Warren, Michelle B.
Wiestner, Adrian
Wilson, Wyndham H.
Wunderlich, John
Xiao, Xiaodong
Yang, James Chung-Yin
Yang, Jiahui

(b) (3) (A), (b) (4),
(b) (6)

Yang, Tian J.
Yang, Yu-an
Yoseph, Rami
Yu, Daiguan
Yu, Zhiya
Zacharakis, Nikolaos
Zbar, Berton
Zhang, Yifan
Zhao, Chihao
Zheng, Zhili
Zhu, Zhongyu
Zhuang, Zhengping

(b) (3) (A), (b)
(4), (b) (6)

NEI

\$5,564.30

Bharti, Kapil
Clore-Gronenborn, Katharina
Davis, (b) (6) Janine A
Miyagishima, Kiyoharu

(b) (3) (A), (b)
(4), (b) (6)

NHGRI

\$30,167.81

Chandler, Randy J.
Collins, Francis S
Erdos, Michael R.
Eriksson, Maria
Pavan, William J
Schneller, Jessica L.
Varga, Renee
Venditti, Charles P.

(b) (3) (A), (b)
(4), (b) (6)

NHLBI

\$379,167.33

(b) (4)
Combs, Christian A.
Derbyshire, John Andrew
Ding, Chuan-Tian
Dunbar, Cynthia E.
Finkel, Toren
Hansen, Michael S.

(b) (3) (A), (b) (4),
(b) (6)

Hong, So Gun	(b) (3) (A), (b) (4), (b) (6)
(b) (4)	
Kellman, Peter	
Kotin, Robert M.	
Lee, Seung-Rock	
Li, Lina	
Lin, Yongshun	
McVeigh, Elliott R	
Nezafat, Reza	
Nirenberg, (b) (6) Marshall	
Rhee, Sue Goo	
Urabe, Masashi	
Walsh, Frank	
Xue, Hui	
Zou, Jizhong	
NIA	\$6,029.39
Ferrucci, Luigi	(b) (3) (A), (b) (4), (b) (6)
Hodes, Richard J	
Matarin Jimenez, Maria Del Mar	
Moaddel, Ruin	
Singleton, Andrew B.	
NIAAA	
Kunos, George I	
NIAID	\$233,467,083.30
Adachi, Akio	(b) (3) (A), (b) (4), (b) (6)
Akin, Cem	
Angermann, Bastian R	
Baxa, Ulrich	
Benn, Steven I	
Bennuru, Sasisekhar	
Blaney, Jr., Joseph E.	
Boyington, Jeffrey C.	
Bray, Michael	
Bu, Wei	

Buchholz, Ursula
Carey, Elizabeth
Chakrabarti, Bimal K.
Chanock, (b) (6) Robert
Chen, Lei
Chen, Man
Chen, Mingzong
Chen, Peifeng
Cheng, Cheng
Cheung, Yiu Chong Gordon
Chuang, Gwo-Yu
Clouse-Strebel, Kathleen A.
Cohen, Jeffrey I.
Collins, Peter L.
Connors, Mark
Cox, Edward M.
Dacon, Cherelle
(b) (4)
DeVico, Angela M.
Druz, Aliaksandr A.
Eckels, Kenneth H
Eisenbarth, (b) (6) George
(b) (6) Clement K. Asiedu
Fink, Doran
Flynn, Barbara J.
Folks, Thomas M
Francica, Joseph Richard
Garboczi, David
Georgiev, Ivelin S.
Germain, Ronald N.
Gerner, Michael Y
Ghosh, Mridul K.
Gorman, Jason
Green, Lisbeth Kim

(b) (3) (A), (b) (4), (b) (6)

Gupta, Pradeep K.
Hanley, Kathryn
Harriman, Gregory R.
Horwitz, Joseph
Hoshino, Yasutaka
Hsu, Su-Cheng Dana
Hu, Haijing
Huang, (b) (6) Yue
Huang, Jinghe
Idris, Azza Hussein
(b) (4)
Ishida, Elise H.
Kang, Byong Ha
Kapikian, (b) (6) Albert Z
Kirshenbaum, Arnold
Kisalu, Neville Kielau
Korty, Patricia E.
Kubofcik, Joseph
Kunimoto, Dennis Y.
Kwon, Young Do
Kwong, Peter D.
Lai, Ching-Juh
Lantz, Larry
Leonard, John M.
Leppla, Stephen H.
Leysath, Clinton E.
Li, Weizhe
Liu, Shi-Hui
Long, Eric O.
Loomis, Rebecca Jo
Mackett, Michael
Martin, Malcolm A
McLellan, Jason Scott
Meier-Schellersheim, Martin

(b) (3) (A), (b)
(4), (b) (6)

Men, Ruhe
Merritt, Joshua S.
Metcalf, Dean D
Moayeri, Mahtab
Moss, Bernard
Murphy, Brian R.
Nabel, Gary J.
Nagy, Attila
Nutman, Thomas B.
OFEK, GILAD A
Ohara, Junichi
Ou, Li
Pancera, Marie L.
Paul, (b) (6) William E.
Pegu, Amarendra
Pesnicak, Lesley M
Phillips, Damilola D.
Pletnev, Alexander G
Pomerantsev, Andrei P
Porgador, Angel
Powell, Douglas M
Rabson, Arnold B.
Rajagopalan, Sumati
Rudicell, Rebecca S.
Rundlet, Emily J
Rutledge, Rosamond A.
Sastry, Mallika
Schwartz, Richard M.
Seder, Robert
Shevach, Ethan M
Smith, Geoffrey L
Sosnovtsev, Stanislav V
Soto, Cinque
Srivatsan, Sanjay R.

(b) (3) (A), (b)
(4), (b) (6)

Stewart-Jones, Guillaume BE

Strober, Warren

Tan, Joshua Hoong Yu

(b) (4)

Theodore, (b) (6) Theodore S

Thomas, Paul V.

Tsybovsky, Yaroslav

(b) (4)

Van Galen, Joseph

Vistein, Rachel Marie

Wang, Lawrence Tsuchun

Ward, Lucy A.

Whitehead, Stephen S.

Willey, Ronald L.

Wu, Xueling

Xu, Kai

(b) (4)

YANG, YONGPING

Yang, Zhi-Yong

Zhang, Baoshan

Zhang, Yi-Ming

Zheng, Anqi

Zhou, Tongqing

Zhu, Jiang

NIAMS

Plotz, Paul H.

Raben, Nina

NIBIB

Parekh, Sapun

Shroff, Hari

York, Andrew G.

NICHD

Blithe, Diana L.

Chou, Janice Yang

(b) (3) (A), (b) (4), (b) (6)

\$51,832.76

(b) (3) (A), (b) (4), (b) (6)

Forlino, Antonella
Gandjbakhche, Amir H

(b) (4)

Kaler, Stephen G.
Lawson, Nathan
Marini, Joan Carol
Nieman, Lynnette K.
Pacak, Karel
Riley, Jason D.
Weinstein, Brant

NIDA

Cheng, Kejun
Iyer, Malliga R.
Jacobson, Arthur E.
Li, Fuying
Rice, Kenner C.

NIDCD

Canseco De Kalinec, Gilda Mabel
Drayna, Dennis T.
Kalinec, Federico
Kim, Un-kyung
RJ Wenthold, (b) (6)

(b) (4)

NIDCR

Akiyama, Steven
Burbelo, Peter D.
Chiorini, John A.
Kaludov, Nikola
Keith, Jerry M
Leppla, Stephen H.
Merkel, Todd J.
Park, Sukjoon
Quinn, Conrad P.
Singh, Yogendra

(b) (3) (A), (b)
(4), (b) (6)

\$7,190.00

(b) (3) (A), (b)
(4), (b) (6)

\$13,195.34

(b) (3) (A), (b)
(4), (b) (6)

\$20,751.55

(b) (3) (A), (b)
(4), (b) (6)

Yamada, Kenneth
Yamada, Susan Sleeper
Yang, Xiaoming

(b) (3) (A),
(b) (4), (b) (6)

NIDDK

\$27,205.04

Appella, Daniel H
Chung, Jay
Englund, Ethan A.
Felsenfeld, Gary
Gomez, Jesus
Jacobson, Kenneth A
Micklitsch, Christopher
Oral, Elif A.
Rane, Sushil Gopal
Sauer, Brian
Taylor, Simeon
Wang, Deyun
Wess, Jurgen
Yamada, Masahisa
Yemane, Bereket
Zhang, Ning
Zhao, Chao

(b) (3) (A), (b)
(4), (b) (6)

NIEHS

\$9,683.41

Baek, Seung Joon
DiAugustine, Richard P
Eddy, Edward
Eling, Thomas E.
Mishina, Yuji
Ray, Manas K.
Scott, Gregory J.
Teng, Christina Tu

(b) (3) (A), (b)
(4), (b) (6)

NIMH

\$185,757.28

Drevets, Wayne C
Eiden, Maribeth V.
Furey, Maura L.

(b) (3) (A), (b)
(4), (b) (6)

Manji, Hussein K.
Swedo, Susan E
Wilson, Carolyn A.
Zarate, Carlos A.

NINDS

Amyot, Franck
Badger II, John D.
Bharti, Kapil
Hou, Jean
Hsu, Yite
Major, Eugene O
Messam, Conrad A
Mota Vieira, Marta Isabel Dias Da
Nguyen, Thien Anh
Roche, Katherine W.
Warach, Steven J.
Ward, Michael Emmerson
Wasserman, Eric M.
Youle, Richard J.

NINR

Barr, Taura L.

(b) (4)

NLM

Lu, Zhiyong
Peng, Yifan

(b) (3) (A), (b)
(4), (b) (6)

\$14,420.24

(b) (3) (A), (b) (4),
(b) (6)

NIH Patent Licensing Activities
CC
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-010-2018/0	Harrison, Adam Patrick	(b) (4)	Ping An Technology (Shenzen) Company LTD	26-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-010-2018/0	Lu, Le	(b) (6)	Ping An Technology (Shenzen) Company LTD	26-Apr-22						
L-010-2018/0	Mollura, Daniel Joseph		Ping An Technology (Shenzen) Company LTD	26-Apr-22						
L-010-2018/0	Summers, Ronald		Ping An Technology (Shenzen) Company LTD	26-Apr-22						
L-010-2018/0	Wang, Xiaosong		Ping An Technology (Shenzen) Company LTD	26-Apr-22						
L-010-2018/0	Xu, Ziyue		Ping An Technology (Shenzen) Company LTD	26-Apr-22						
<i>Note: L-010-2018/0 split between CC; NLM</i>										
L-028-2018/1	Lay, Nathan Stephan		Scanmed LLC	28-Apr-22						
L-028-2018/1	Reinhard Roth, Holger		Scanmed LLC	28-Apr-22						
L-028-2018/1	Summers, Ronald		Scanmed LLC	28-Apr-22						
L-028-2018/1	Tsehay, Yohannes Kebede		Scanmed LLC	28-Apr-22						
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										
L-028-2018/1	Lay, Nathan Stephan		Scanmed LLC	28-Apr-22						
L-028-2018/1	Reinhard Roth, Holger		Scanmed LLC	28-Apr-22						
L-028-2018/1	Summers, Ronald		Scanmed LLC	28-Apr-22						
L-028-2018/1	Tsehay, Yohannes Kebede		Scanmed LLC	28-Apr-22						
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										
L-059-2018/0	Baecher, Nicolai		Ping An Technology (Shenzhen) Company It	28-Apr-22						
L-059-2018/0	Lay, Nathan Stephan		Ping An Technology (Shenzhen) Company It	28-Apr-22						
L-059-2018/0	Liu, Jiamin		Ping An Technology (Shenzhen) Company It	28-Apr-22						
L-059-2018/0	Summers, Ronald		Ping An Technology (Shenzhen) Company It	28-Apr-22						
L-059-2018/0	Yao, Jianhua		Ping An Technology (Shenzhen) Company It	28-Apr-22						

NIH Patent Licensing Activities
CC
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-159-2007/2	CC		Hope Pharmaceuticals	11-May-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS</i>										

NIH Patent Licensing Activities
CC
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-115-2022/0	Wood, Bradford J	(b) (4), (b) (6)	Koninklijke Philips N.V.	23-Jun-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-115-2022/0 split between CC; NCI</i>										

NIH Patent Licensing Activities
CC
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
CC
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-107-2015/2	CC		lovance Biotherapeutics. Inc.	3-Aug-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-107-2015/2 split between CC; NCI</i>										
L-122-2017/0	Kwak, Jin Tae	(b) (4)	Koninklijke Philips N.V.	29-Aug-22						
L-122-2017/0	Summers, Ronald	(b) (6)	Koninklijke Philips N.V.	29-Aug-22						
L-122-2017/0	Wood, Bradford J		Koninklijke Philips N.V.	29-Aug-22						
L-122-2017/0	Xu, Sheng		Koninklijke Philips N.V.	29-Aug-22						
<i>Note: L-122-2017/0 split between CC; NCI</i>										

NIH Patent Licensing Activities
CC
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$53,153.16	\$0.00	\$53,153.16		\$14,118.50	\$39,034.66

NIH Patent Licensing Activities
 CDC
 April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
L-102-2019/4	Rupprecht, Charles E.	(b) (4)	BELVITUNIPHARM	1-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-102-2019/4	Wu, Xianfu	(b) (6)	BELVITUNIPHARM	1-Apr-22						
L-031-2015/1	Ades, Edwin W.		Emory University	4-Apr-22						
L-031-2015/1	Candal, Francisco (Paco) J.		Emory University	4-Apr-22						
L-178-2021/0	Kinney, Claire Huang		Takeda Vaccine, Inc.	4-Apr-22						
L-065-2019/0	CDC		DiaSorin Molecular LLC	7-Apr-22						
L-065-2019/0	CDC		DiaSorin Molecular LLC	7-Apr-22						
L-167-2021/1	Folks, Thomas M	(b) (4)	Sandoz Pty Ltd	11-Apr-22						
L-167-2021/1	Garcia Lerma, Jose Gerardo	(b) (6)	Sandoz Pty Ltd	11-Apr-22						
L-167-2021/1	Heneine, Walid M.		Sandoz Pty Ltd	11-Apr-22						
L-167-2021/1	Janssen, Robert		Sandoz Pty Ltd	11-Apr-22						
L-167-2021/1	Otten, Ronald		Sandoz Pty Ltd	11-Apr-22						
L-147-2013/0	McDougal, Steve		Beijing Kinghawk Pharma	14-Apr-22						
L-147-2013/0	Parekh, Bharat S.		Beijing Kinghawk Pharma	14-Apr-22						
L-147-2013/0	Wei, Xierong		Beijing Kinghawk Pharma	14-Apr-22						
L-129-2014/2	Anderson, Larry J.		ViroStat, Inc.	22-Apr-22						
L-129-2014/2	Tsou, Cecelia		ViroStat, Inc.	22-Apr-22						

NIH Patent Licensing Activities
 CDC
 May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
L-112-2014/4	CDC	(b) (4)	Biological E. Limited	1-May-22						(b) (3) (A), (b) (4), (b) (6)
L-051-2020/0	Olson, Victoria Ann	(b) (6)	BIO ZOO, S.A. de C.V.	1-May-22						
L-051-2020/0	Wu, Xianfu		BIO ZOO, S.A. de C.V.	1-May-22						
L-051-2020/0	Yang, Yong		BIO ZOO, S.A. de C.V.	1-May-22						
L-161-2014/1	CDC		ZeptoMetrix Corporation	11-May-22						
L-210-2014/2	CDC		ZeptoMetrix Corp.	11-May-22						
L-241-2017/0	CDC		ZeptoMetrix Corporation	11-May-22						
L-148-2019/0	Erdman, Dean D.	(b) (4)	ZeptoMetrix Corporation	11-May-22						
L-148-2019/0	Tamin, Azibi	(b) (6)	ZeptoMetrix Corporation	11-May-22						
L-148-2019/0	Tong, Suxiang		ZeptoMetrix Corporation	11-May-22						

L-004-2021/0	CDC	(b) (4), (b) (6)	ZeptoMetrix Corporation	11-May-22	(b) (3) (A), (b) (4), (b) (6)
L-205-2013/1	Cox, Nancy J.		University of Florida Research Foundatio	13-May-22	
L-205-2013/1	Donis, Ruben O.		University of Florida Research Foundatio	13-May-22	
L-205-2013/1	Katz, Jacqueline M.		University of Florida Research Foundatio	13-May-22	
L-205-2013/1	Klimov, Alexander I.		University of Florida Research Foundatio	13-May-22	
L-130-2014/2	Donlan, Rodney M.		BioSurface Technologies	16-May-22	
L-130-2014/2	Kirby, Wayne		BioSurface Technologies	16-May-22	
L-130-2014/2	Murga, Ricardo		BioSurface Technologies	16-May-22	
L-225-2017/0	CDC		InBios International, Inc.	17-May-22	
L-123-2018/1	Roehrig, John T.	(b) (4), (b) (6)	InBios International, Inc.	17-May-22	
L-123-2018/1	Roehrig, John T.		InBios International, Inc.	17-May-22	
L-198-2016/2	CDC		Codagenix	18-May-22	
L-036-2021/0	CDC		Shandong Yidu Biotechnology Co., Ltd.	18-May-22	
L-140-2013/0	Lewis, Daniel M.	(b) (4), (b) (6)	Alexeter Technologies	20-May-22	
L-140-2013/0	Schmechel, Detlef		Alexeter Technologies	20-May-22	
L-093-2005/4	Sanchez, Anthony		Janssen Vaccines & Prevention BV	25-May-22	

Note: L-093-2005/4 split between CDC; NIAID

NIH Patent Licensing Activities
CDC
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		
L-231-2013/0	Murphy, William J.	(b) (4), (b) (6)	Michael & Associates, Inc.	8-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-231-2013/0	Raudabaugh, William M.		Michael & Associates, Inc.	8-Jun-22						
L-231-2013/0	Stephenson, Mark R.		Michael & Associates, Inc.	8-Jun-22						
L-283-2018/0	CDC		TAD Pharma GmbH	8-Jun-22						
L-102-2019/4	Rupprecht, Charles E.	(b) (4), (b) (6)	BELVITUNIPHARM	13-Jun-22						
L-102-2019/4	Wu, Xianfu		BELVITUNIPHARM	13-Jun-22						
L-062-2022/0	Folks, Thomas M		Lupin Pharmaceuticals, Inc	15-Jun-22						
L-062-2022/0	Garcia Lerma, Jose Gerardo		Lupin Pharmaceuticals, Inc	15-Jun-22						
L-062-2022/0	Heneine, Walid M.		Lupin Pharmaceuticals, Inc	15-Jun-22						
L-062-2022/0	Janssen, Robert		Lupin Pharmaceuticals, Inc	15-Jun-22						
L-062-2022/0	Otten, Ronald		Lupin Pharmaceuticals, Inc	15-Jun-22						
L-062-2022/0	CDC		Lupin Pharmaceuticals, Inc	15-Jun-22						
L-062-2022/0	Folks, Thomas M	(b) (4), (b) (6)	Lupin Pharmaceuticals, Inc	17-Jun-22						
L-062-2022/0	Garcia Lerma, Jose Gerardo		Lupin Pharmaceuticals, Inc	17-Jun-22						
L-062-2022/0	Heneine, Walid M.		Lupin Pharmaceuticals, Inc	17-Jun-22						
L-062-2022/0	Janssen, Robert		Lupin Pharmaceuticals, Inc	17-Jun-22						

L-062-2022/0	Otten, Ronald	(b) (4), (b) (6)	Lupin Pharmaceuticals, Inc	17-Jun-22	(b) (3) (A), (b) (4), (b) (6)
L-061-2017/0	Amador, Manuel		AP&G Co., Inc	23-Jun-22	
L-061-2017/0	Barrera, Roberto		AP&G Co., Inc	23-Jun-22	
L-061-2017/0	Mackay, Andrew J.		AP&G Co., Inc	23-Jun-22	
L-203-2018/0	CDC		Serum Institute of India	23-Jun-22	
L-119-2022/0	CDC	(b) (4), (b) (6)	Microbiologics In	28-Jun-22	
L-179-2013/0	McDougal, Steve		Vaxim Biotech, Inc.	30-Jun-22	
L-179-2013/0	Parekh, Bharat S.		Vaxim Biotech, Inc.	30-Jun-22	
L-179-2013/0	Wei, Xierong		Vaxim Biotech, Inc.	30-Jun-22	

**NIH Patent Licensing Activities
CDC
July 2022**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
L-142-2013/0	Lewis, Daniel M.	(b) (4)	Advnt Biotechnologies, L.L.C.	8-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-142-2013/0	Schmechel, Detlef	(b) (6)	Advnt Biotechnologies, L.L.C.	8-Jul-22						
L-075-2022/0	Burns, Cara C.		Biological Mimetics, Inc.	11-Jul-22						
L-075-2022/0	Campagnolie, Raymond (Ray) P.		Biological Mimetics, Inc.	11-Jul-22						
L-075-2022/0	Kew, Olen M.		Biological Mimetics, Inc.	11-Jul-22						
L-075-2022/0	Konopka-Anstadt, Jennifer Lynn		Biological Mimetics, Inc.	11-Jul-22						
L-075-2022/0	Shaw, Jing		Biological Mimetics, Inc.	11-Jul-22						
L-075-2022/0	Vincent, Annelet S		Biological Mimetics, Inc.	11-Jul-22						
L-112-2021/0	Folks, Thomas M		Laurus Generics, Inc.	12-Jul-22						
L-112-2021/0	Garcia Lerma, Jose Gerardo		Laurus Generics, Inc.	12-Jul-22						
L-112-2021/0	Heneine, Walid M.		Laurus Generics, Inc.	12-Jul-22						
L-112-2021/0	Janssen, Robert		Laurus Generics, Inc.	12-Jul-22						
L-112-2021/0	Otten, Ronald		Laurus Generics, Inc.	12-Jul-22						
L-101-2017/0	CDC		Life Technologies Corporation	20-Jul-22						
L-112-2018/0	CDC		Life Technologies	20-Jul-22						
L-329-2014/0	Bishop, Henry	(b) (4), (b) (6)	Fuller Laboratories	21-Jul-22						
L-151-2014/2	Bellini, William J.		Millipore Sigma	25-Jul-22						
L-151-2014/2	Wang, Zhongde		Millipore Sigma	25-Jul-22						
L-154-2014/2	Black, Jodi B.		Millipore Sigma	25-Jul-22						
L-154-2014/2	Lopez, Carlos		Millipore Sigma	25-Jul-22						
L-154-2014/2	Pellett, Philip E.		Millipore Sigma	25-Jul-22						
L-154-2014/2	Yamamoto, Masahiro		Millipore Sigma	25-Jul-22						
L-186-2013/6	Chang, Gwong-Jen J.		DiaSorin Molecular	27-Jul-22						
L-186-2013/6	Roehrig, John T.		DiaSorin Molecular	27-Jul-22						

NIH Patent Licensing Activities
 CDC
 August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License	Inventor Awards August	Net Remaining to IC
								Cumulative Income		
L-198-2013/0	Fields, Patricia	(b) (4)	Luminex Corporation	8-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-198-2013/0	Leaumont, Collette F.	(b) (6)	Luminex Corporation	8-Aug-22						
L-198-2013/0	McQuiston, John R.		Luminex Corporation	8-Aug-22						
L-093-2005/4	CDC		Janssen Vaccines & Prevention BV	11-Aug-22						
<i>Note: L-093-2005/4 split between CDC; NIAID</i>										
L-129-2014/3	Anderson, Larry J.	(b) (4)	ViroStat, Inc.	11-Aug-22						
L-129-2014/3	Tsou, Cecelia	(b) (6)	ViroStat, Inc.	11-Aug-22						
L-139-2014/2	Bellini, William J.		VMRD	11-Aug-22						
L-139-2014/2	Esposito, Joseph J.		VMRD	11-Aug-22						
L-139-2014/2	Summer, John		VMRD	11-Aug-22						
L-023-2020/0	Chang, Gwong-Jen J.		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Crill, Wayne D.		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Davis, Brent S.		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Hughes, Holly R		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Chang, Gwong-Jen J.		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Crill, Wayne D.		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Davis, Brent S.		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Hughes, Holly R		The Native Antigen Company	12-Aug-22						
L-023-2020/0	Chang, Gwong-Jen J.		The Native Antigen Company	16-Aug-22						
L-023-2020/0	Crill, Wayne D.		The Native Antigen Company	16-Aug-22						
L-023-2020/0	Davis, Brent S.		The Native Antigen Company	16-Aug-22						
L-023-2020/0	Hughes, Holly R		The Native Antigen Company	16-Aug-22						
L-031-2015/1	Ades, Edwin W.		Emory University	19-Aug-22						
L-031-2015/1	Candal, Francisco (Paco) J.		Emory University	19-Aug-22						
L-166-2017/1	CDC		Accelerate Diagnostics, Inc.	19-Aug-22						
L-203-2018/0	CDC		Serum Institute of India	22-Aug-22						
L-228-2019/1	Albarino, Cesar G.	(b) (4)	Colorado State University	24-Aug-22						
L-228-2019/1	Bird, Brian H.	(b) (6)	Colorado State University	24-Aug-22						
L-228-2019/1	Ksiazek, Thomas G.		Colorado State University	24-Aug-22						
L-228-2019/1	Nichol, Stuart T.		Colorado State University	24-Aug-22						
L-225-2017/0	Chang, Gwong-Jen J.		InBios International, Inc.	30-Aug-22						
L-225-2017/0	Davis, Brent S.		InBios International, Inc.	30-Aug-22						
L-225-2017/0	Roehrig, John T.		InBios International, Inc.	30-Aug-22						
L-225-2017/0	Thibodeaux, Brett A.		InBios International, Inc.	30-Aug-22						

September 2022

License	Inventor	Inventor		Date of Deposit	September 2022			License Cumulative Income	Inventor Awards September	Net Remaining to IC
		Share %	Licensee		% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income			
L-176-2020/0	Granade, Timothy C.	(b) (4)	Sedia Biosciences Corporation	2-Sep-22					(b) (3) (A), (b) (4), (b) (6)	
L-176-2020/0	McDougal, Steve	(b) (6)	Sedia Biosciences Corporation	2-Sep-22						
L-176-2020/0	Parekh, Bharat S.		Sedia Biosciences Corporation	2-Sep-22						
L-176-2020/0	Pau, Chou-Pong		Sedia Biosciences Corporation	2-Sep-22						
L-176-2020/0	Wei, Xierong		Sedia Biosciences Corporation	2-Sep-22						
L-101-2017/0	Devos, Joshua R.		Life Technologies Corporation	6-Sep-22						
L-101-2017/0	Wagar, Nicholas		Life Technologies Corporation	6-Sep-22						
L-101-2017/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	6-Sep-22						
L-101-2017/0	Zhou, Zhiyong		Life Technologies Corporation	6-Sep-22						
L-156-2020/0	CDC		Fyr Diagnostics	7-Sep-22						
L-142-2013/0	Lewis, Daniel M.	(b) (4)	Advnt Biotechnologies, L.L.C.	15-Sep-22						
L-142-2013/0	Schmechel, Detlef	(b) (6)	Advnt Biotechnologies, L.L.C.	15-Sep-22						
L-102-2019/4	Rupprecht, Charles E.		BELVITUNIPHARM	19-Sep-22						
L-102-2019/4	Wu, Xianfu		BELVITUNIPHARM	19-Sep-22						
L-062-2022/0	Folks, Thomas M		Lupin Pharmaceuticals, Inc	21-Sep-22						
L-062-2022/0	Garcia Lerma, Jose Gerardo		Lupin Pharmaceuticals, Inc	21-Sep-22						
L-062-2022/0	Heneine, Walid M.		Lupin Pharmaceuticals, Inc	21-Sep-22						
L-062-2022/0	Janssen, Robert		Lupin Pharmaceuticals, Inc	21-Sep-22						
L-062-2022/0	Otten, Ronald		Lupin Pharmaceuticals, Inc	21-Sep-22						
L-129-2013/0	Reid, Thomas M.		Aerotech Laboratories, Inc.	28-Sep-22						
L-129-2013/0	Schafer, Millie P.		Aerotech Laboratories, Inc.	28-Sep-22						
L-140-2013/0	Lewis, Daniel M.		Alexeter Technologies	28-Sep-22						
L-140-2013/0	Schmechel, Detlef		Alexeter Technologies	28-Sep-22						
					\$5,818,285.26	\$83,244.22	\$5,901,529.48		\$145,635.97	\$5,755,893.51

NIH Patent Licensing Activities
CIT
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-028-2018/1	Cheng, Ruida	(b) (4)	Scanmed LLC	28-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-028-2018/1	McAuliffe, Matthew	(b) (6)	Scanmed LLC	28-Apr-22						
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										
L-028-2018/1	Cheng, Ruida	(b) (4)	Scanmed LLC	28-Apr-22						
L-028-2018/1	McAuliffe, Matthew	(b) (6)	Scanmed LLC	28-Apr-22						
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>										

NIH Patent Licensing Activities
CIT
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-232-2014/1	CIT		NanoString Technologies, Inc.	11-May-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-232-2014/1 split between CIT; NCI</i>										

NIH Patent Licensing Activities
CIT
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
CIT
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-232-2014/1	CIT		NanoString Technologies, Inc.	18-Jul-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-232-2014/1 split between CIT; NCI</i>										

NIH Patent Licensing Activities
CIT
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
CIT
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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 _____ (b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

FDA

April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-347-2014/0	Donnelly, Raymond P.	(b) (4), (b) (6)	Abcam, plc	22-Apr-22						(b) (3) (A), (b) (4), (b) (6)

Note: L-347-2014/0 split between FDA; NCI

NIH Patent Licensing Activities

FDA

May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-080-2006/4	Falgout, Barry	(b) (4), (b) (6)	Panacea Biotech Ltd	6-May-22						(b) (3) (A), (b) (4), (b) (6)
L-080-2006/4	Markoff, Lewis	(b) (6)	Panacea Biotech Ltd	6-May-22						

Note: L-080-2006/4 split between FDA; NIAID

NIH Patent Licensing Activities

FDA

June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-080-2006/4	Falgout, Barry	(b) (4), (b) (6)	Panacea Biotech Ltd	22-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-080-2006/4	Markoff, Lewis	(b) (6)	Panacea Biotech Ltd	22-Jun-22						
L-080-2006/4	FDA		Panacea Biotech Ltd	22-Jun-22						

Note: L-080-2006/4 split between FDA; NIAID

NIH Patent Licensing Activities

FDA

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-001-2015/2	Falgout, Barry	(b) (4), (b) (6)	Merck Sharp & Dohme, Corp.	18-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-001-2015/2	Markoff, Lewis	(b) (6)	Merck Sharp & Dohme, Corp.	18-Jul-22						

Note: L-001-2015/2 split between FDA; NIAID

NIH Patent Licensing Activities

FDA
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-079-2008/0	Petricoin, Emanuel	(b) (4), (b) (6)	Avant Diagnostics, Inc	10-Aug-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-079-2008/0 split between FDA; NCI</i>										
L-149-2015/1	FDA		Serum Institute of India Ltd.	17-Aug-22						
<i>Note: L-149-2015/1 split between FDA; NIAID</i>										

NIH Patent Licensing Activities

FDA
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$24,020.20	\$0.00	\$24,020.20		\$5,662.38	\$18,357.82

NIH Patent Licensing Activities
 NCATS
 April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-128-2016/0	Alimardanov, Asaf R	(b) (4)	Massachusetts General Hospital	7-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-128-2016/0	Grewal, Gurmit S	(b) (6)	Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Huang, Xiuli		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Lee, Arthur		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	McKew, John C.		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Patel, Paresma Rasiklal		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Sanderson, Philip Edward		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Shen, Min		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Xu, Xin		Massachusetts General Hospital	7-Apr-22						
L-128-2016/0	Zheng, Wei		Massachusetts General Hospital	7-Apr-22						
L-066-2019/0	Alimardanov, Asaf R		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Huang, Junfeng		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Huang, Wenwei		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Huang, Xiuli		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Jiang, Jian-kang		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Lee, Arthur		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Sanderson, Philip Edward		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Shamim, Khalida		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Tawa, Gregory		Brigham and Women's Hospital	7-Apr-22						
L-066-2019/0	Zheng, Wei		Brigham and Women's Hospital	7-Apr-22						
L-128-2016/0	Alimardanov, Asaf R		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Grewal, Gurmit S		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Huang, Xiuli		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Lee, Arthur		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	McKew, John C.		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Patel, Paresma Rasiklal		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Sanderson, Philip Edward		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Shen, Min		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Xu, Xin		Massachusetts General Hospital	12-Apr-22						
L-128-2016/0	Zheng, Wei		Massachusetts General Hospital	12-Apr-22						
L-066-2019/0	Alimardanov, Asaf R		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Huang, Junfeng		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Huang, Wenwei		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Huang, Xiuli		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Jiang, Jian-kang		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Lee, Arthur		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Sanderson, Philip Edward		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Shamim, Khalida		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Tawa, Gregory		Brigham and Women's Hospital	12-Apr-22						
L-066-2019/0	Zheng, Wei		Brigham and Women's Hospital	12-Apr-22						
L-016-2016/0	Marugan, Juan J.		The General Hospital Corporation	19-Apr-22						

NIH Patent Licensing Activities
NCATS
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-025-2017/1	Morris, Patrick	(b) (4)	Tocris Bioscience	20-May-22						(b) (3) (A), (b) (4), (b) (6)
L-025-2017/1	Thomas, Craig J.	(b) (6)	Tocris Bioscience	20-May-22						

Note: L-025-2017/1 split between NCATS; NIA; NIMH

NIH Patent Licensing Activities
NCATS
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NCATS
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NCATS
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-204-2019/0	Bantukallu, Ganesha Rai	(b) (4)	Vanderbilt University	10-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-204-2019/0	Brimacombe, Kyle R.	(b) (6)	Vanderbilt University	10-Aug-22						
L-204-2019/0	Hall, Matthew D.		Vanderbilt University	10-Aug-22						
L-204-2019/0	Hu, Xin		Vanderbilt University	10-Aug-22						
L-204-2019/0	Jadhav, Ajit P.		Vanderbilt University	10-Aug-22						
L-204-2019/0	Kouznetsova, Jennifer Lynn		Vanderbilt University	10-Aug-22						
L-204-2019/0	Maloney, David		Vanderbilt University	10-Aug-22						
L-204-2019/0	Mott, Bryan T.		Vanderbilt University	10-Aug-22						
L-204-2019/0	Simeonov, Anton		Vanderbilt University	10-Aug-22						
L-204-2019/0	Urban, Daniel		Vanderbilt University	10-Aug-22						
L-204-2019/0	Yang, Shyh-Ming		Vanderbilt University	10-Aug-22						
Note: L-204-2019/0 split between NCATS; NCI										
L-204-2019/0	Bantukallu, Ganesha Rai		Vanderbilt University	10-Aug-22						
L-204-2019/0	Brimacombe, Kyle R.		Vanderbilt University	10-Aug-22						
L-204-2019/0	Hall, Matthew D.		Vanderbilt University	10-Aug-22						
L-204-2019/0	Hu, Xin		Vanderbilt University	10-Aug-22						
L-204-2019/0	Jadhav, Ajit P.		Vanderbilt University	10-Aug-22						
L-204-2019/0	Kouznetsova, Jennifer Lynn		Vanderbilt University	10-Aug-22						

L-204-2019/0	Maloney, David	(b) (4), Vanderbilt University	10-Aug-22
L-204-2019/0	Mott, Bryan T.	(b) (6) Vanderbilt University	10-Aug-22
L-204-2019/0	Simeonov, Anton	Vanderbilt University	10-Aug-22
L-204-2019/0	Urban, Daniel	Vanderbilt University	10-Aug-22
L-204-2019/0	Yang, Shyh-Ming	Vanderbilt University	10-Aug-22

Note: L-204-2019/0 split between NCATS; NCI

L-204-2019/0	Bantukallu, Ganesha Rai	Vanderbilt University	10-Aug-22
L-204-2019/0	Brimacombe, Kyle R.	Vanderbilt University	10-Aug-22
L-204-2019/0	Hall, Matthew D.	Vanderbilt University	10-Aug-22
L-204-2019/0	Hu, Xin	Vanderbilt University	10-Aug-22
L-204-2019/0	Jadhav, Ajit P.	Vanderbilt University	10-Aug-22
L-204-2019/0	Kouznetsova, Jennifer Lynn	Vanderbilt University	10-Aug-22
L-204-2019/0	Maloney, David	Vanderbilt University	10-Aug-22
L-204-2019/0	Mott, Bryan T.	Vanderbilt University	10-Aug-22
L-204-2019/0	Simeonov, Anton	Vanderbilt University	10-Aug-22
L-204-2019/0	Urban, Daniel	Vanderbilt University	10-Aug-22
L-204-2019/0	Yang, Shyh-Ming	Vanderbilt University	10-Aug-22

Note: L-204-2019/0 split between NCATS; NCI

L-264-2020/0	Hall, Matthew D.	Vanderbilt University	10-Aug-22
L-264-2020/0	Urban, Daniel	Vanderbilt University	10-Aug-22

Note: L-264-2020/0 split between NCATS; NCI

L-264-2020/0	Hall, Matthew D.	Vanderbilt University	10-Aug-22
L-264-2020/0	Urban, Daniel	Vanderbilt University	10-Aug-22

Note: L-264-2020/0 split between NCATS; NCI

L-264-2020/0	Hall, Matthew D.	Vanderbilt University	10-Aug-22
L-264-2020/0	Urban, Daniel	Vanderbilt University	10-Aug-22

Note: L-264-2020/0 split between NCATS; NCI

L-204-2019/0	Bantukallu, Ganesha Rai	Vanderbilt University	17-Aug-22
L-204-2019/0	Brimacombe, Kyle R.	Vanderbilt University	17-Aug-22
L-204-2019/0	Hall, Matthew D.	Vanderbilt University	17-Aug-22
L-204-2019/0	Hu, Xin	Vanderbilt University	17-Aug-22
L-204-2019/0	Jadhav, Ajit P.	Vanderbilt University	17-Aug-22
L-204-2019/0	Kouznetsova, Jennifer Lynn	Vanderbilt University	17-Aug-22
L-204-2019/0	Maloney, David	Vanderbilt University	17-Aug-22
L-204-2019/0	Mott, Bryan T.	Vanderbilt University	17-Aug-22
L-204-2019/0	Simeonov, Anton	Vanderbilt University	17-Aug-22
L-204-2019/0	Urban, Daniel	Vanderbilt University	17-Aug-22
L-204-2019/0	Yang, Shyh-Ming	Vanderbilt University	17-Aug-22

Note: L-204-2019/0 split between NCATS; NCI

L-264-2020/0	Hall, Matthew D.	Vanderbilt University	17-Aug-22
L-264-2020/0	Urban, Daniel	Vanderbilt University	17-Aug-22

Note: L-264-2020/0 split between NCATS; NCI

(b) (3) (A), (b) (4), (b) (6)

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-055-2015/1	NCATS		Bial-BioTech Investments, Inc.	9-Sep-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-055-2015/1 split between NCATS; NHGRI</i>										
L-025-2017/1	Morris, Patrick	(b) (4)	Tocris Bioscience	26-Sep-22						
L-025-2017/1	Thomas, Craig J.	(b) (6)	Tocris Bioscience	26-Sep-22						
<i>Note: L-025-2017/1 split between NCATS; NIA; NIMH</i>										
					\$916,868.43	\$45,942.41	\$962,810.84		\$226,127.59	\$736,683.25

NIH Patent Licensing Activities
 NCI
 April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	License			Inventor Awards April	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income		
L-005-2022/0	Bonomi, Carrie A.	(b) (4)	Dicerna Pharmaceuticals, Inc	1-Apr-22				(b) (3) (A), (b) (4), (b) (6)	
L-005-2022/0	Borgel, Suzanne D.	(b) (6)	Dicerna Pharmaceuticals, Inc	1-Apr-22					
L-005-2022/0	Dougherty, Kelly		Dicerna Pharmaceuticals, Inc	1-Apr-22					
L-005-2022/0	Hollingshead, Melinda G.		Dicerna Pharmaceuticals, Inc	1-Apr-22					
L-083-2022/0	Bonomi, Carrie A.		Corner Therapeutics	1-Apr-22					
L-083-2022/0	Borgel, Suzanne D.		Corner Therapeutics	1-Apr-22					
L-083-2022/0	Dougherty, Kelly		Corner Therapeutics	1-Apr-22					
L-083-2022/0	Hollingshead, Melinda G.		Corner Therapeutics	1-Apr-22					
L-041-1998/2	Alimandi, Maurizio		Millipore Sigma	4-Apr-22					
L-041-1998/2	Pierce, Jacalyn H.		Millipore Sigma	4-Apr-22					
L-041-1998/2	Wang, Ling-Mei		Millipore Sigma	4-Apr-22					
L-077-2015/2	NCI		Kite Pharma, Inc.	4-Apr-22					
L-218-2016/1	NCI		Kite Pharma, Inc	4-Apr-22					
L-044-2022/0	Gottesman, Michael M.	(b) (4),	Merck Sharp & Dohme Corp.	4-Apr-22					
L-044-2022/0	Pastan, Ira H.	(b) (6)	Merck Sharp & Dohme Corp.	4-Apr-22					
L-044-2022/0	Ueda, Kazumitsu		Merck Sharp & Dohme Corp.	4-Apr-22					
L-234-2000/5	Gelboin, (b) (6) Harry		Xeno Tech, LLC	5-Apr-22					
L-234-2000/5	Gonzalez, Frank J.		Xeno Tech, LLC	5-Apr-22					
L-234-2000/5	Krausz, Kristopher W.		Xeno Tech, LLC	5-Apr-22					
L-234-2000/5	Yang, Tian J.		Xeno Tech, LLC	5-Apr-22					
L-151-2019/1	Bonomi, Carrie A.		Pliant Therapeutics, Inc.	5-Apr-22					
L-151-2019/1	Borgel, Suzanne D.		Pliant Therapeutics, Inc.	5-Apr-22					
L-151-2019/1	Dougherty, Kelly		Pliant Therapeutics, Inc.	5-Apr-22					
L-151-2019/1	Hollingshead, Melinda G.		Pliant Therapeutics, Inc.	5-Apr-22					
L-065-2021/1	NCI		Lyell Immunopharma, Inc.	5-Apr-22					
<i>Note: L-065-2021/1 split between NCI; NIAID</i>									
L-229-2021/0	Gazdar, (b) (6) Adi	(b) (6)	OmicScouts GmbH	5-Apr-22					
L-229-2021/0	Johnson, Bruce E	(4)	OmicScouts GmbH	5-Apr-22					
L-229-2021/0	Kaye, Frederic J	(b) (6)	OmicScouts GmbH	5-Apr-22					
L-229-2021/0	Khleif, Samir N.		OmicScouts GmbH	5-Apr-22					
L-229-2021/0	Minna, John D.		OmicScouts GmbH	5-Apr-22					
L-229-2021/0	Oie, (b) (6) Herbert K		OmicScouts GmbH	5-Apr-22					
L-229-2021/0	Pass, Harvey I		OmicScouts GmbH	5-Apr-22					
L-088-2022/0	Gazdar, (b) (6) Adi		Mercy BioAnalytics, Inc.	5-Apr-22					
L-088-2022/0	Johnson, Bruce E		Mercy BioAnalytics, Inc.	5-Apr-22					
L-088-2022/0	Kaye, Frederic J		Mercy BioAnalytics, Inc.	5-Apr-22					
L-088-2022/0	Khleif, Samir N.		Mercy BioAnalytics, Inc.	5-Apr-22					
L-088-2022/0	Minna, John D.		Mercy BioAnalytics, Inc.	5-Apr-22					
L-088-2022/0	Oie, (b) (6) Herbert K		Mercy BioAnalytics, Inc.	5-Apr-22					
L-088-2022/0	Pass, Harvey I		Mercy BioAnalytics, Inc.	5-Apr-22					

Case Number	Applicant	Company	Date	Redaction
L-108-2020/0	NCI	ElevateBio	6-Apr-22	(b) (3) (A), (b) (4), (b) (6)
L-010-2009/2	Felber, Barbara K.	(b) (4), Taimed Biologics USA	7-Apr-22	
L-010-2009/2	Pavlakis, George N	(b) (6) Taimed Biologics USA	7-Apr-22	
L-277-2019/1	Beyer, Rachel K. B.	Ribometrix Inc	7-Apr-22	
L-277-2019/1	(b) (4)	Ribometrix Inc	7-Apr-22	
L-277-2019/1	Holderfield, Matthew T.	Ribometrix Inc	7-Apr-22	
L-277-2019/1	Soppet, Dan	Ribometrix Inc	7-Apr-22	
L-277-2019/1	Beyer, Rachel K. B.	Ribometrix Inc	7-Apr-22	
L-277-2019/1	(b) (4)	Ribometrix Inc	7-Apr-22	
L-277-2019/1	Holderfield, Matthew T.	Ribometrix Inc	7-Apr-22	
L-277-2019/1	Soppet, Dan	Ribometrix Inc	7-Apr-22	
L-745-1991/2	Chang, Nancy T.	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Crowl, Robert	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Fisher, Amanda G.	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Hahn, Beatrice	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	(b) (4)	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Popovic, Mikulas	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Reddy, E. Premkumar.	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Sarnagadharan, Mangalasseril	BioMerieux, Inc.	8-Apr-22	
L-745-1991/2	Shaw, George M	BioMerieux, Inc.	8-Apr-22	
L-137-2010/1	Potter, (b) (6) Michael	Exbio	8-Apr-22	
L-003-2012/1	Potter, (b) (6) Michael	Exbio Praha AS	8-Apr-22	
L-092-2013/1	Potter, (b) (6) Michael	EXBIO Praha	8-Apr-22	
L-102-2013/1	Hathcock, Karen	EXBIO Praha	8-Apr-22	
L-102-2013/1	Hodes, Richard J	EXBIO Praha	8-Apr-22	
L-102-2013/1	Laszlo, Gloria	EXBIO Praha	8-Apr-22	
<i>Note: L-102-2013/1 split between NCI; NIA</i>				
L-235-2019/0	Copeland, Neal	Vir Biotechnology, Inc.	8-Apr-22	
L-235-2019/0	Costantino, Nina	Vir Biotechnology, Inc.	8-Apr-22	
L-235-2019/0	Court, Donald	Vir Biotechnology, Inc.	8-Apr-22	
L-235-2019/0	Jenkins Copeland, Nancy A	Vir Biotechnology, Inc.	8-Apr-22	
L-235-2019/0	Warming, Soren	Vir Biotechnology, Inc.	8-Apr-22	
L-085-2020/0	Austin, Faye C.	EXBIO Praha	8-Apr-22	
L-085-2020/0	Colcher, David	EXBIO Praha	8-Apr-22	
L-085-2020/0	Hand, Patricia H.	EXBIO Praha	8-Apr-22	
L-085-2020/0	Nuti, Marianna	EXBIO Praha	8-Apr-22	
L-085-2020/0	Schlom, Jeffrey	EXBIO Praha	8-Apr-22	
L-079-2021/0	NCI	Six Therapeutics Inc.	8-Apr-22	
L-093-2022/0	Bonomi, Carrie A.	(b) (4) Pliant Therapeutics, Inc.	12-Apr-22	
L-093-2022/0	Dougherty, Kelly	(b) (6) Pliant Therapeutics, Inc.	12-Apr-22	
L-093-2022/0	Hollingshead, Melinda G.	Pliant Therapeutics, Inc.	12-Apr-22	
L-159-2018/2	Bonomi, Carrie A.	Bicycle Therapeutics	13-Apr-22	
L-159-2018/2	Borgel, Suzanne D.	Bicycle Therapeutics	13-Apr-22	

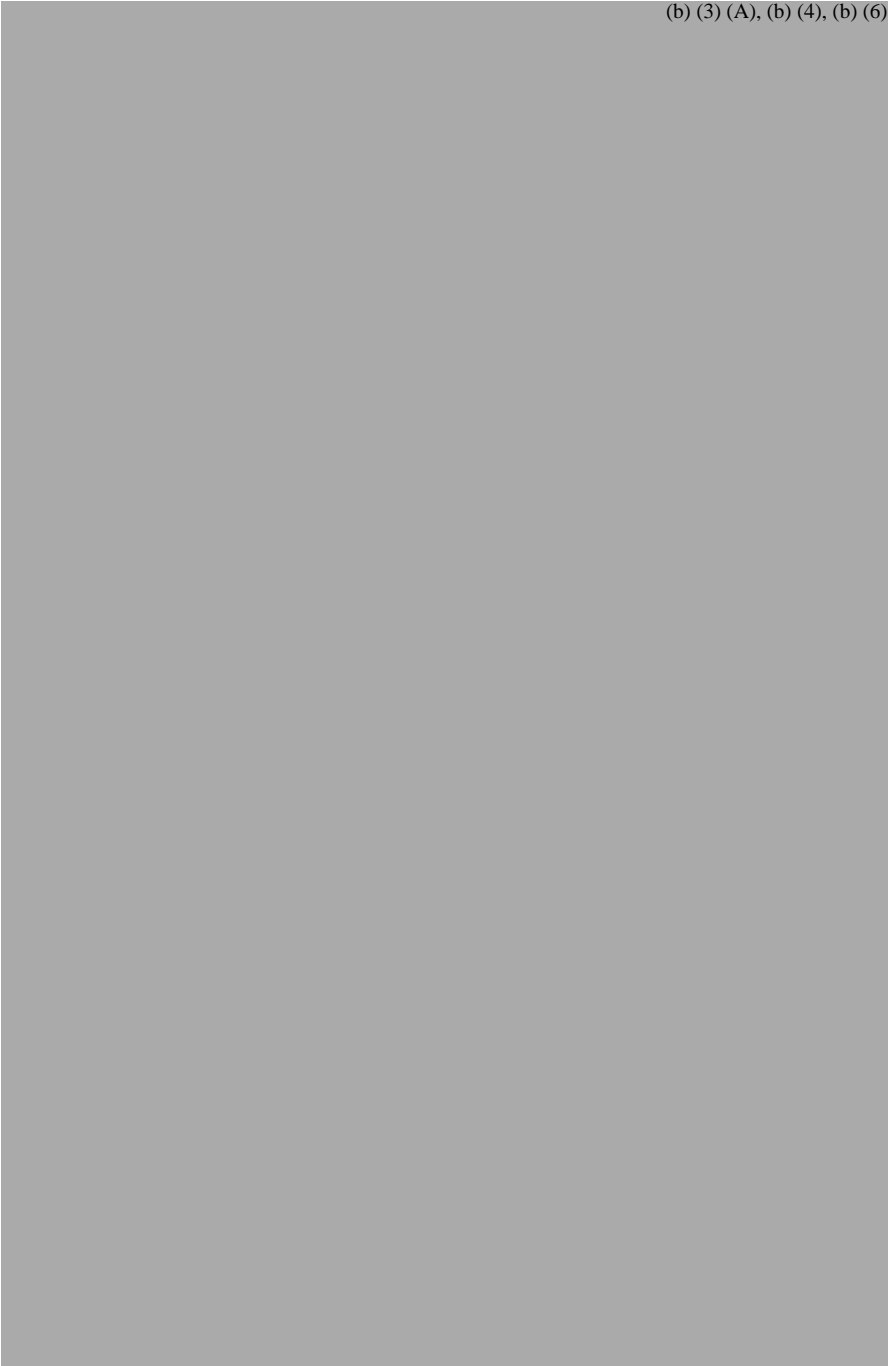
L-159-2018/2	Dougherty, Kelly	(b) (4) Bicycle Therapeutics	13-Apr-22
L-159-2018/2	Hollingshead, Melinda G.	(b) (6) Bicycle Therapeutics	13-Apr-22
L-201-2019/0	Esposito, Dominic	LakePharma	13-Apr-22
L-201-2019/0	Grose, Carissa L.	LakePharma	13-Apr-22
L-105-2022/0	Medina, Rogelio	NE1, Inc.	13-Apr-22
L-105-2022/0	(b) (4)	NE1, Inc.	13-Apr-22
L-105-2022/0	Wang, Herui	NE1, Inc.	13-Apr-22
L-105-2022/0	Zhuang, Zhengping	NE1, Inc.	13-Apr-22
<i>Note: L-105-2022/0 split between NCI; NICHD</i>			
L-110-2022/0	Bonomi, Carrie A.	Kumquat Biosciences Inc.	13-Apr-22
L-110-2022/0	Borgel, Suzanne D.	Kumquat Biosciences Inc.	13-Apr-22
L-110-2022/0	Dougherty, Kelly	Kumquat Biosciences Inc.	13-Apr-22
L-110-2022/0	Hollingshead, Melinda G.	Kumquat Biosciences Inc.	13-Apr-22
L-093-2017/1	Gazdar, (b) (6) Adi	ADC Therapeutics SA	14-Apr-22
L-093-2017/1	Minna, John D.	ADC Therapeutics SA	14-Apr-22
L-208-2021/0	Cafri, Gal	Athenex, Inc.	14-Apr-22
L-208-2021/0	Deniger, Drew	Athenex, Inc.	14-Apr-22
L-208-2021/0	Hanada, Kenichi	Athenex, Inc.	14-Apr-22
L-208-2021/0	Kim, Sanghyun	Athenex, Inc.	14-Apr-22
L-208-2021/0	Levin, Noam	Athenex, Inc.	14-Apr-22
L-208-2021/0	Lo, Winifred Margaret	Athenex, Inc.	14-Apr-22
L-208-2021/0	Lowery, Frank	Athenex, Inc.	14-Apr-22
L-208-2021/0	Lu, Yong-Chen	Athenex, Inc.	14-Apr-22
L-208-2021/0	Malekzadeh, Parisa	Athenex, Inc.	14-Apr-22
L-208-2021/0	Paria, Biman	Athenex, Inc.	14-Apr-22
L-208-2021/0	Parkhurst, Maria	Athenex, Inc.	14-Apr-22
L-208-2021/0	Pasetto, Anna	Athenex, Inc.	14-Apr-22
L-208-2021/0	Robbins, Paul F	Athenex, Inc.	14-Apr-22
L-208-2021/0	Yang, James Chung-Yin	Athenex, Inc.	14-Apr-22
L-208-2021/0	Yoseph, Rami	Athenex, Inc.	14-Apr-22
L-208-2021/0	Zacharakis, Nikolaos	Athenex, Inc.	14-Apr-22
L-208-2021/0	Zhao, Chihao	Athenex, Inc.	14-Apr-22
L-082-2015/0	Gazdar (b) (6) Adi	Personal Genome Diagnostics	15-Apr-22
L-082-2015/0	Johnson, Bruce E	Personal Genome Diagnostics	15-Apr-22
L-082-2015/0	Kaye, Frederic J	Personal Genome Diagnostics	15-Apr-22
L-082-2015/0	Khleif, Samir N.	Personal Genome Diagnostics	15-Apr-22
L-082-2015/0	Minna, John D.	Personal Genome Diagnostics	15-Apr-22
L-082-2015/0	Oie, (b) (6) Herbert K	Personal Genome Diagnostics	15-Apr-22
L-082-2015/0	Pass, Harvey I	Personal Genome Diagnostics	15-Apr-22
L-062-2018/1	Bonomi, Carrie A.	Constellation Pharmaceuticals, Inc.	15-Apr-22
L-062-2018/1	Borgel, Suzanne D.	Constellation Pharmaceuticals, Inc.	15-Apr-22
L-062-2018/1	Dougherty, Kelly	Constellation Pharmaceuticals, Inc.	15-Apr-22
L-062-2018/1	Hollingshead, Melinda G.	Constellation Pharmaceuticals, Inc.	15-Apr-22
L-082-2022/0	Gottesman, Michael M.	Bristol-Myers Squibb Company	15-Apr-22
L-082-2022/0	Pastan, Ira H.	Bristol-Myers Squibb Company	15-Apr-22
L-082-2022/0	Ueda, Kazumitsu	Bristol-Myers Squibb Company	15-Apr-22
L-082-2016/1	Popovic, Mikulas	Gilead Sciences, Inc.	18-Apr-22

(b) (3) (A), (b) (4), (b) (6)

L-082-2016/1	Popovic, Mikulas	(b) (4)	Gilead Sciences, Inc.	18-Apr-22
L-052-2018/1	Gros, Alena	(b) (6)	MedGene Therapeutics, Inc.	18-Apr-22
L-078-2019/1	Bonomi, Carrie A.		OMEROS Corporation	18-Apr-22
L-078-2019/1	Borgel, Suzanne D.		OMEROS Corporation	18-Apr-22
L-078-2019/1	Dougherty, Kelly		OMEROS Corporation	18-Apr-22
L-078-2019/1	Hollingshead, Melinda G.		OMEROS Corporation	18-Apr-22
L-153-2019/2	Beyer, Rachel K. B.		Novartis Institutes for BioMedical Resea	19-Apr-22
L-153-2019/2	(b) (4)		Novartis Institutes for BioMedical Resea	19-Apr-22
L-153-2019/2	Holderfield, Matthew T.		Novartis Institutes for BioMedical Resea	19-Apr-22
L-153-2019/2	Soppet, Dan		Novartis Institutes for BioMedical Resea	19-Apr-22
L-026-2020/0	Bonomi, Carrie A.		Imanis Life Sciences, LLC	19-Apr-22
L-026-2020/0	Borgel, Suzanne D.		Imanis Life Sciences, LLC	19-Apr-22
L-026-2020/0	Dougherty, Kelly		Imanis Life Sciences, LLC	19-Apr-22
L-026-2020/0	Hollingshead, Melinda G.		Imanis Life Sciences, LLC	19-Apr-22
L-064-2022/0	Dimitrov, Dimiter S.		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Fry, Terry		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Haso, Waleed		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Mackall, Crystal L		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Orentas, Rimas J.		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Pastan, Ira H.		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Qin, Haiying		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Ramakrishna, Sneha		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Xiao, Xiaodong		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Zhu, Zhongyu		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Dimitrov, Dimiter S.		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Fry, Terry		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Haso, Waleed		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Mackall, Crystal L		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Orentas, Rimas J.		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Pastan, Ira H.		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Qin, Haiying		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Ramakrishna, Sneha		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Xiao, Xiaodong		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	Zhu, Zhongyu		Caring Cross, Inc.	19-Apr-22
L-064-2022/0	NCI		Caring Cross, Inc.	19-Apr-22
L-009-2018/0	Copeland, Neal	(b) (4)	Spybiotech Limited	20-Apr-22
L-009-2018/0	Costantino, Nina	(b) (6)	Spybiotech Limited	20-Apr-22
L-009-2018/0	Court, Donald		Spybiotech Limited	20-Apr-22
L-009-2018/0	Ellis, Hilary Moyed		Spybiotech Limited	20-Apr-22
L-009-2018/0	Jenkins Copeland, Nancy A		Spybiotech Limited	20-Apr-22
L-009-2018/0	Lee, E-Chiang		Spybiotech Limited	20-Apr-22
L-009-2018/0	Sharan, Shyam K		Spybiotech Limited	20-Apr-22
L-009-2018/0	Swaminathan, Srividya		Spybiotech Limited	20-Apr-22
L-009-2018/0	Warming, Soren		Spybiotech Limited	20-Apr-22
L-009-2018/0	Yu, Daiguan		Spybiotech Limited	20-Apr-22
L-297-2014/2	Gelboin, (b) (6) Harry		CYP450-GP	21-Apr-22
L-297-2014/2	Gonzalez, Frank J.		CYP450-GP	21-Apr-22
L-297-2014/2	Krausz, Kristopher W.		CYP450-GP	21-Apr-22

(b) (3) (A), (b) (4), (b) (6)

L-091-2022/0	Costantino, Nina	(b) (4)	BP Technology Ventures Inc.	21-Apr-22
L-091-2022/0	Court, Donald	(b) (6)	BP Technology Ventures Inc.	21-Apr-22
L-091-2022/0	Datta, Simanti		BP Technology Ventures Inc.	21-Apr-22
L-091-2022/0	Costantino, Nina		BP Technology Ventures Inc.	21-Apr-22
L-091-2022/0	Court, Donald		BP Technology Ventures Inc.	21-Apr-22
L-091-2022/0	Datta, Simanti		BP Technology Ventures Inc.	21-Apr-22
L-064-2011/0	Barry, Todd		Eptiomics Inc	22-Apr-22
L-064-2011/0	Rosenwald, Andreas		Eptiomics Inc	22-Apr-22
L-064-2011/0	Staudt, Louis M		Eptiomics Inc	22-Apr-22
L-064-2011/0	Wiestner, Adrian		Eptiomics Inc	22-Apr-22
L-064-2011/0	Wilson, Wyndham H.		Eptiomics Inc	22-Apr-22
L-075-2013/1	Franchini, Genoveffa		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Kalyanaraman, Vaniambadi S.		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Markham, Phillip D.		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Salahuddin, Syed Z.		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Franchini, Genoveffa		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Kalyanaraman, Vaniambadi S.		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Markham, Phillip D.		WuXi Advanced Therapies Inc.	22-Apr-22
L-075-2013/1	Salahuddin, Syed Z.		WuXi Advanced Therapies Inc.	22-Apr-22
L-347-2014/0	Muchmore, Brian P.		Abcam, plc	22-Apr-22
L-347-2014/0	O'Brien, Thomas R		Abcam, plc	22-Apr-22
L-347-2014/0	Porter-Gill, Patricia A.		Abcam, plc	22-Apr-22
L-347-2014/0	Prokunina-Olsson, Ludmila		Abcam, plc	22-Apr-22
<i>Note: L-347-2014/0 split between FDA; NCI</i>				
L-081-2018/0	NCI		PathoVax LLV	22-Apr-22
L-189-2021/0	Bonomi, Carrie A.	(b)	Harpoon Therapeutics	22-Apr-22
L-189-2021/0	Dougherty, Kelly	(4)	Harpoon Therapeutics	22-Apr-22
L-189-2021/0	Hollingshead, Melinda G.	(b) (6)	Harpoon Therapeutics	22-Apr-22
L-001-2021/0	Gazdar, (b) (6) Adi		AstraZeneca Limited UK	25-Apr-22
L-001-2021/0	Johnson, Bruce E		AstraZeneca Limited UK	25-Apr-22
L-001-2021/0	Kaye, Frederic J		AstraZeneca Limited UK	25-Apr-22
L-001-2021/0	Khleif, Samir N.		AstraZeneca Limited UK	25-Apr-22
L-001-2021/0	Minna, John D.		AstraZeneca Limited UK	25-Apr-22
L-001-2021/0	Oie, (b) (6) Herbert K		AstraZeneca Limited UK	25-Apr-22
L-001-2021/0	Pass, Harvey I		AstraZeneca Limited UK	25-Apr-22
L-072-2022/0	Bonomi, Carrie A.		Cantargia AB	25-Apr-22
L-072-2022/0	Borgel, Suzanne D.		Cantargia AB	25-Apr-22
L-072-2022/0	Dougherty, Kelly		Cantargia AB	25-Apr-22
L-072-2022/0	Hollingshead, Melinda G.		Cantargia AB	25-Apr-22
L-072-2022/0	Bonomi, Carrie A.		Cantargia AB	25-Apr-22
L-072-2022/0	Borgel, Suzanne D.		Cantargia AB	25-Apr-22
L-072-2022/0	Dougherty, Kelly		Cantargia AB	25-Apr-22
L-072-2022/0	Hollingshead, Melinda G.		Cantargia AB	25-Apr-22
L-024-2021/0	Fry, Terry		Vor Biopharma, Inc.	26-Apr-22
L-024-2021/0	Qin, Haiying		Vor Biopharma, Inc.	26-Apr-22



L-183-1999/0	Aaronson, Stuart A.	(b) (4)	Abbott Molecular Inc.	27-Apr-22
L-183-1999/0	King, Charles R.	(b) (6)	Abbott Molecular Inc.	27-Apr-22
L-183-1999/0	Kraus, (b) (6) Matthias		Abbott Molecular Inc.	27-Apr-22
L-010-2009/2	Felber, Barbara K.		Taimed Biologics USA	27-Apr-22
L-010-2009/2	Pavlakis, George N		Taimed Biologics USA	27-Apr-22
L-100-2022/0	Wakefield, Lalage M		Pliant Therapeutics, Inc.	27-Apr-22
L-100-2022/0	Yang, Yu-an		Pliant Therapeutics, Inc.	27-Apr-22
<i>Note: L-100-2022/0 split between NCI; NIDDK</i>				
L-028-2018/1	Choyke, Peter L		Scanmed LLC	28-Apr-22
L-028-2018/1	Gaur, Sonia Sonalee		Scanmed LLC	28-Apr-22
L-028-2018/1	Greer, Matthew D.		Scanmed LLC	28-Apr-22
L-028-2018/1	Mertan, Francesca		Scanmed LLC	28-Apr-22
L-028-2018/1	Turkbey, Ismail B.		Scanmed LLC	28-Apr-22
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>				
L-028-2018/1	Choyke, Peter L		Scanmed LLC	28-Apr-22
L-028-2018/1	Gaur, Sonia Sonalee		Scanmed LLC	28-Apr-22
L-028-2018/1	Greer, Matthew D.		Scanmed LLC	28-Apr-22
L-028-2018/1	Mertan, Francesca		Scanmed LLC	28-Apr-22
L-028-2018/1	Turkbey, Ismail B.		Scanmed LLC	28-Apr-22
<i>Note: L-028-2018/1 split between CC; CIT; NCI</i>				
L-106-2022/0	Bonomi, Carrie A.		EMD Millipore Corporation	28-Apr-22
L-106-2022/0	Borgel, Suzanne D.		EMD Millipore Corporation	28-Apr-22
L-106-2022/0	Dougherty, Kelly		EMD Millipore Corporation	28-Apr-22
L-106-2022/0	Hollingshead, Melinda G.		EMD Millipore Corporation	28-Apr-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

**NCI
May 2022**

License	Inventor	Inventor Share %	Licensor	Date of Deposit	NIH Patent Licensing Activities			License Cumulative Income	Inventor Awards May	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income			
L-108-2015/0	Gros, Alena	(b) (4)	iovance Biotherapeutics Inc	2-May-22					(b) (3) (A), (b) (4), (b) (6)	
L-088-2020/0	Helman, Lee	(b) (6)	OncoMyx Therapeutics, Inc	2-May-22						
L-088-2020/0	Khanna, Chand		OncoMyx Therapeutics, Inc	2-May-22						
L-065-2022/1	Columbus, John Milton		Quanta Therapeutics, Inc.	2-May-22						
L-065-2022/1	Esposito, Dominic		Quanta Therapeutics, Inc.	2-May-22						
L-065-2022/1	Turbyville, Thomas Jefferson		Quanta Therapeutics, Inc.	2-May-22						
L-068-2013/2	NCI		Kite Pharma, Inc.	3-May-22						
L-231-2021/0	Bonomi, Carrie A.	(b) (4)	Delta TpX, Inc.	3-May-22						
L-231-2021/0	Borgel, Suzanne D.	(b) (6)	Delta TpX, Inc.	3-May-22						
L-231-2021/0	Dougherty, Kelly		Delta TpX, Inc.	3-May-22						
L-231-2021/0	Hollingshead, Melinda G.		Delta TpX, Inc.	3-May-22						
L-211-2017/0	Kahn, Richard A		Emory University	4-May-22						

L-076-2010/1	NCI	Scancell Ltd	5-May-22	(b) (3) (A), (b) (4), (b) (6)
L-096-2022/0	Dimitrov, Dimiter S.	(b) (4),	6-May-22	
L-096-2022/0	Mackall, Crystal L	(b) (6)	6-May-22	
L-096-2022/0	Orentas, Rimas J.	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Pastan, Ira H.	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Shah, Nirali	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Xiao, Xiaodong	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	NCI	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Dimitrov, Dimiter S.	(b) (4),	6-May-22	
L-096-2022/0	Mackall, Crystal L	(b) (6)	6-May-22	
L-096-2022/0	Orentas, Rimas J.	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Pastan, Ira H.	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Shah, Nirali	Syncopation Life Sciences, Inc.	6-May-22	
L-096-2022/0	Xiao, Xiaodong	Syncopation Life Sciences, Inc.	6-May-22	
L-252-2017/0	Bonomi, Carrie A.	Champions Oncology, Inc.	9-May-22	
L-252-2017/0	Borgel, Suzanne D.	Champions Oncology, Inc.	9-May-22	
L-252-2017/0	Dougherty, Kelly	Champions Oncology, Inc.	9-May-22	
L-252-2017/0	Hollingshead, Melinda G.	Champions Oncology, Inc.	9-May-22	
L-034-2021/0	Hamilton, Thomas C	Celmatix Inc.	9-May-22	
L-034-2021/0	Ozols, Robert F	Celmatix Inc.	9-May-22	
L-093-2022/0	Bonomi, Carrie A.	Pliant Therapeutics, Inc.	9-May-22	
L-093-2022/0	Dougherty, Kelly	Pliant Therapeutics, Inc.	9-May-22	
L-093-2022/0	Hollingshead, Melinda G.	Pliant Therapeutics, Inc.	9-May-22	
L-086-2019/0	Bonomi, Carrie A.	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-086-2019/0	Dougherty, Kelly	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-086-2019/0	Hollingshead, Melinda G.	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-176-2019/0	Bonomi, Carrie A.	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-176-2019/0	Borgel, Suzanne D.	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-176-2019/0	Dougherty, Kelly	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-176-2019/0	Hollingshead, Melinda G.	Pionyr Immunotherapeutics, Inc.	10-May-22	
L-135-2010/0	Barry, Todd	Laboratory Corporation of America	11-May-22	
L-135-2010/0	Rosenwald, Andreas	Laboratory Corporation of America	11-May-22	
L-135-2010/0	Staudt, Louis M	Laboratory Corporation of America	11-May-22	
L-135-2010/0	Wiestner, Adrian	Laboratory Corporation of America	11-May-22	
L-135-2010/0	Wilson, Wyndham H.	Laboratory Corporation of America	11-May-22	
L-232-2014/1	NCI	NanoString Technologies, Inc.	11-May-22	
<i>Note: L-232-2014/1 split between CIT; NCI</i>				
L-179-2016/1	Gazdar, (b) (6) Adi	(b) (4),	12-May-22	
L-179-2016/1	Johnson, Bruce E	(b) (6)	12-May-22	
L-179-2016/1	Kaye, Frederic J	Janssen Research Foundation	12-May-22	
L-179-2016/1	Khleif, Samir N.	Janssen Research Foundation	12-May-22	
L-179-2016/1	Minna, John D.	Janssen Research Foundation	12-May-22	
L-179-2016/1	Oie, (b) (6) Herbert K	Janssen Research Foundation	12-May-22	
L-179-2016/1	Pass, Harvey I	Janssen Research Foundation	12-May-22	
L-191-2020/0	Bonomi, Carrie A.	Actym Therapeutics, Inc	12-May-22	

L-191-2020/0	Borgel, Suzanne D.	(b) (4)	Actym Therapeutics, Inc	12-May-22
L-191-2020/0	Dougherty, Kelly	(b) (6)	Actym Therapeutics, Inc	12-May-22
L-191-2020/0	Hollingshead, Melinda G.		Actym Therapeutics, Inc	12-May-22
L-130-2019/0	Bonomi, Carrie A.		Exelixis, Inc.	13-May-22
L-130-2019/0	Borgel, Suzanne D.		Exelixis, Inc.	13-May-22
L-130-2019/0	Dougherty, Kelly		Exelixis, Inc.	13-May-22
L-130-2019/0	Hollingshead, Melinda G.		Exelixis, Inc.	13-May-22
L-035-2020/0	Bonomi, Carrie A.		Celgene Corp	13-May-22
L-035-2020/0	Dougherty, Kelly		Celgene Corp	13-May-22
L-035-2020/0	Hollingshead, Melinda G.		Celgene Corp	13-May-22
L-083-2020/0	Gottesman, Michael M.		Q2 Solutions BioSciences LLC	13-May-22
L-083-2020/0	Pastan, Ira H.		Q2 Solutions BioSciences LLC	13-May-22
L-083-2020/0	Ueda, Kazumitsu		Q2 Solutions BioSciences LLC	13-May-22
L-002-2022/0	Gazdar, (b) (6) Adi		Rubius Therapeutics, Inc.	16-May-22
L-002-2022/0	Johnson, Bruce E		Rubius Therapeutics, Inc.	16-May-22
L-002-2022/0	Kaye, Frederic J		Rubius Therapeutics, Inc.	16-May-22
L-002-2022/0	Khleif, Samir N.		Rubius Therapeutics, Inc.	16-May-22
L-002-2022/0	Minna, John D.		Rubius Therapeutics, Inc.	16-May-22
L-002-2022/0	Oie (b) (6) Herbert K		Rubius Therapeutics, Inc.	16-May-22
L-002-2022/0	Pass, Harvey I		Rubius Therapeutics, Inc.	16-May-22
L-114-2022/0	Bonomi, Carrie A.		MuriGenics, In	16-May-22
L-114-2022/0	Borgel, Suzanne D.		MuriGenics, In	16-May-22
L-114-2022/0	Dougherty, Kelly		MuriGenics, In	16-May-22
L-114-2022/0	Hollingshead, Melinda G.		MuriGenics, In	16-May-22
L-114-2022/0	Bonomi, Carrie A.		MuriGenics, In	16-May-22
L-114-2022/0	Borgel, Suzanne D.		MuriGenics, In	16-May-22
L-114-2022/0	Dougherty, Kelly		MuriGenics, In	16-May-22
L-114-2022/0	Hollingshead, Melinda G.		MuriGenics, In	16-May-22
L-149-2019/0	NCI		Kite Pharma	17-May-22
L-092-2021/0	Schlom, Jeffrey	(b) (4), (b) (6)	Light Chain Bioscience-Novimmune SA	17-May-22
L-100-2017/0	Bonomi, Carrie A.		Genmab, B.V.	18-May-22
L-100-2017/0	Borgel, Suzanne D.		Genmab, B.V.	18-May-22
L-100-2017/0	Dougherty, Kelly		Genmab, B.V.	18-May-22
L-100-2017/0	Hollingshead, Melinda G.		Genmab, B.V.	18-May-22
L-113-2019/1	Gottesman, Michael M.		Pharmaron Beijing Co., LTD	18-May-22
L-113-2019/1	Pastan, Ira H.		Pharmaron Beijing Co., LTD	18-May-22
L-113-2019/1	Ueda, Kazumitsu		Pharmaron Beijing Co., LTD	18-May-22
L-158-2021/0	NCI		Kyverna Therapeutics	18-May-22
L-159-2021/0	NCI		Kyverna Therapeutics	18-May-22
L-265-2002/0	Marquez, Victor E	(b) (4), (b) (6)	Tocris Cookson, Ltd.	20-May-22
<i>Note: L-265-2002/0 split between NCI; NIDDK</i>				
L-025-2007/0	Hollingshead, Melinda G.		Tocris Bioscience	20-May-22
L-025-2007/0	Sausville, Edward		Tocris Bioscience	20-May-22

L-025-2007/0	Snader, Kenneth M	(b) (4)	Tocris Bioscience	20-May-22
L-025-2007/0	Vishnuvajjala, B. Rao	(b) (6)	Tocris Bioscience	20-May-22
L-190-2019/5	Cafri, Gal		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Deniger, Drew		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Feldman, Steven A		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Fitzgerald, Peter C.		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Hanada, Kenichi		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Kim, Sanghyun		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Levin, Noam		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Lo, Winifred Margaret		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Lowery, Frank		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Lu, Yong-Chen		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Malekzadeh, Parisa		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Paria, Biman		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Parkhurst, Maria		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Pasetto, Anna		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Robbins, Paul F		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Tran, Eric		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Wang, Qiong		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Yang, James Chung-Yin		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Yoseph, Rami		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Yu, Zhiya		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Zacharakis, Nikolaos		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Zhao, Chihao		Alauonos Therapeutics, Inc.	20-May-22
L-190-2019/5	Zheng, Zhili		Alauonos Therapeutics, Inc.	20-May-22
L-112-2022/0	Adhya, Sankar Lal		Pfizer, Inc.	20-May-22
L-112-2022/0	Garges, Susan		Pfizer, Inc.	20-May-22
L-112-2022/0	Jakubczak, John L.		Pfizer, Inc.	20-May-22
L-112-2022/0	Merlino, Glenn T.		Pfizer, Inc.	20-May-22
L-297-2014/3	Gelboin, (b) (6) of Harry		CYP450-GP	23-May-22
L-297-2014/3	Gonzalez, Frank J.		CYP450-GP	23-May-22
L-297-2014/3	Krausz, Kristopher W.		CYP450-GP	23-May-22
L-038-2021/0	Bonomi, Carrie A.		HiberCell, Inc.	23-May-22
L-038-2021/0	Borgel, Suzanne D.		HiberCell, Inc.	23-May-22
L-038-2021/0	Dougherty, Kelly		HiberCell, Inc.	23-May-22
L-038-2021/0	Hollingshead, Melinda G.		HiberCell, Inc.	23-May-22
L-224-2015/1	NCI		2seventy bio	24-May-22
L-259-2020/0	Bonomi, Carrie A.	(b) (4)	STipe Therapeutics ApS	25-May-22
L-259-2020/0	Borgel, Suzanne D.	(b) (6)	STipe Therapeutics ApS	25-May-22
L-259-2020/0	Dougherty, Kelly		STipe Therapeutics ApS	25-May-22
L-259-2020/0	Hollingshead, Melinda G.		STipe Therapeutics ApS	25-May-22
L-259-2020/0	Bonomi, Carrie A.		STipe Therapeutics ApS	25-May-22
L-259-2020/0	Borgel, Suzanne D.		STipe Therapeutics ApS	25-May-22
L-259-2020/0	Dougherty, Kelly		STipe Therapeutics ApS	25-May-22
L-259-2020/0	Hollingshead, Melinda G.		STipe Therapeutics ApS	25-May-22
L-124-2022/0	Baskar, Sivasubramanian		Manhattan BioSolutions, Inc.	25-May-22
L-124-2022/0	Cheuk, Adam Tai Chi		Manhattan BioSolutions, Inc.	25-May-22
L-124-2022/0	Dimitrov, Dimiter S.		Manhattan BioSolutions, Inc.	25-May-22
L-124-2022/0	Khan, Javed		Manhattan BioSolutions, Inc.	25-May-22

(b) (3) (A), (b) (4), (b) (6)

L-124-2022/0	Orentas, Rimas J.	(b) (4),	Manhattan BioSolutions, Inc.	25-May-22
L-124-2022/0	Zhu, Zhongyu	(b) (6)	Manhattan BioSolutions, Inc.	25-May-22
L-082-2021/0	Bonomi, Carrie A.		Sensei Biotherapeutics Inc.,	26-May-22
L-082-2021/0	Borgel, Suzanne D.		Sensei Biotherapeutics Inc.,	26-May-22
L-082-2021/0	Dougherty, Kelly		Sensei Biotherapeutics Inc.,	26-May-22
L-082-2021/0	Hollingshead, Melinda G.		Sensei Biotherapeutics Inc.,	26-May-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NCI
June 2022

License	Inventor	Inventor Share %	Licensor	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		
L-089-2016/4	Dimitrov, Dimiter S.	(b) (4)	H2bio	1-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-089-2016/4	Feng, Mingqian	(b) (6)	H2bio	1-Jun-22						
L-089-2016/4	Gao, Wei		H2bio	1-Jun-22						
L-089-2016/4	Ho, Mitchell		H2bio	1-Jun-22						
L-089-2016/4	Pastan, Ira H.		H2bio	1-Jun-22						
L-089-2016/4	Tang, Zhewei		H2bio	1-Jun-22						
L-031-2021/0	NCI		Capricio Biotechnologies, Inc	1-Jun-22						
L-077-2021/0	Bonomi, Carrie A.	(b) (4)	Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Borgel, Suzanne D.	(b) (6)	Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Dougherty, Kelly		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Gazdar, (b) (6) Adi		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Hollingshead, Melinda G.		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Johnson, Bruce E		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Kaye, Frederic J		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Khleif, Samir N.		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Minna, John D.		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Oie, (b) (6) Herbert K		Minerva Imaging ApS	2-Jun-22						
L-077-2021/0	Pass, Harvey I		Minerva Imaging ApS	2-Jun-22						
L-002-2004/1	Kawakami, Yutaka		Cell Marque	3-Jun-22						
L-002-2004/1	Robbins, Paul F		Cell Marque	3-Jun-22						
L-001-2008/2	Austin, Faye C.		Cell Marque Corporation	3-Jun-22						
L-001-2008/2	Colcher, David		Cell Marque Corporation	3-Jun-22						
L-001-2008/2	Hand, Patricia H.		Cell Marque Corporation	3-Jun-22						
L-001-2008/2	Nuti, Marianna		Cell Marque Corporation	3-Jun-22						
L-001-2008/2	Schlom, Jeffrey		Cell Marque Corporation	3-Jun-22						
L-147-2021/0	Bonomi, Carrie A.		LG Chem, Ltd	3-Jun-22						
L-147-2021/0	Borgel, Suzanne D.		LG Chem, Ltd	3-Jun-22						
L-147-2021/0	Dougherty, Kelly		LG Chem, Ltd	3-Jun-22						
L-147-2021/0	Hollingshead, Melinda G.		LG Chem, Ltd	3-Jun-22						
L-002-2004/1	Kawakami, Yutaka		Cell Marque	6-Jun-22						
L-002-2004/1	Robbins, Paul F		Cell Marque	6-Jun-22						
L-001-2008/2	Austin, Faye C.		Cell Marque Corporation	6-Jun-22						
L-001-2008/2	Colcher, David		Cell Marque Corporation	6-Jun-22						
L-001-2008/2	Hand, Patricia H.		Cell Marque Corporation	6-Jun-22						

			(b) (3) (A), (b) (4), (b) (6)
L-001-2008/2	Nuti, Marianna	(b) (4) Cell Marque Corporation	6-Jun-22
L-001-2008/2	Schlom, Jeffrey	(b) (6) Cell Marque Corporation	6-Jun-22
L-277-2014/2	NCI	Kite Pharma, Inc.	6-Jun-22
L-154-1997/2	Mason, Llewellyn H.	(b) (4) BD Biosciences - BD PharMingen	7-Jun-22
L-154-1997/2	Ortaldo, John R.	(b) (6) BD Biosciences - BD PharMingen	7-Jun-22
L-183-1999/0	King, Charles R.	Abbott Molecular Inc.	7-Jun-22
L-183-1999/0	Kraus, (b) (6) Matthias	Abbott Molecular Inc.	7-Jun-22
L-097-2000/3	Austin, Faye C.	BD Biosciences, PharMingen	7-Jun-22
L-097-2000/3	Colcher, David	BD Biosciences, PharMingen	7-Jun-22
L-097-2000/3	Hand, Patricia H.	BD Biosciences, PharMingen	7-Jun-22
L-097-2000/3	Nuti, Marianna	BD Biosciences, PharMingen	7-Jun-22
L-097-2000/3	Schlom, Jeffrey	BD Biosciences, PharMingen	7-Jun-22
L-032-2016/0	NCI	Novartis International Pharmaceuticals L	7-Jun-22
L-213-2018/1	NCI	University of North Carolina, Charlotte	7-Jun-22
L-004-2007/2	NCI	Life Technologies Corp.	9-Jun-22
L-108-2009/0	NCI	AB Sciex, LLC	9-Jun-22
L-224-2015/1	NCI	2seventy bio	10-Jun-22
L-001-2021/0	Gazdar, (b) (6) Adi	(b) (4) AstraZeneca Limited UK	10-Jun-22
L-001-2021/0	Johnson, Bruce E	(b) (6) AstraZeneca Limited UK	10-Jun-22
L-001-2021/0	Kaye, Frederic J	AstraZeneca Limited UK	10-Jun-22
L-001-2021/0	Khleif, Samir N.	AstraZeneca Limited UK	10-Jun-22
L-001-2021/0	Minna, John D.	AstraZeneca Limited UK	10-Jun-22
L-001-2021/0	Oie, (b) (6) Herbert K	AstraZeneca Limited UK	10-Jun-22
L-001-2021/0	Pass, Harvey I	AstraZeneca Limited UK	10-Jun-22
L-271-2001/8	(b) (4)	Millennium Pharmaceuticals, Inc.	14-Jun-22
L-045-2008/2	Bonner, William M	Active Motif, Inc.	14-Jun-22
L-045-2008/2	Rogakou, Eftimia P.	Active Motif, Inc.	14-Jun-22
L-176-2019/1	Bonomi, Carrie A.	Pionyr Immunotherapeutics, Inc	14-Jun-22
L-176-2019/1	Borgel, Suzanne D.	Pionyr Immunotherapeutics, Inc	14-Jun-22
L-176-2019/1	Dougherty, Kelly	Pionyr Immunotherapeutics, Inc	14-Jun-22
L-176-2019/1	Hollingshead, Melinda G.	Pionyr Immunotherapeutics, Inc	14-Jun-22
L-049-1991/5	Finch, Paul W.	Biovitium AB (publ)	15-Jun-22
L-049-1991/5	Rubin, Jeffrey S	Biovitium AB (publ)	15-Jun-22
L-160-2020/0	Bonomi, Carrie A.	Hanmi Pharmaceutical Co., Ltd	15-Jun-22
L-160-2020/0	Borgel, Suzanne D.	Hanmi Pharmaceutical Co., Ltd	15-Jun-22
L-160-2020/0	Dougherty, Kelly	Hanmi Pharmaceutical Co., Ltd	15-Jun-22
L-160-2020/0	Hollingshead, Melinda G.	Hanmi Pharmaceutical Co., Ltd	15-Jun-22
L-109-2022/0	Gottesman, Michael M.	Sai Life Sciences Limited	16-Jun-22
L-109-2022/0	Pastan, Ira H.	Sai Life Sciences Limited	16-Jun-22
L-109-2022/0	Ueda, Kazumitsu	Sai Life Sciences Limited	16-Jun-22

L-049-1991/5	Finch, Paul W.	(b) (4)	Biovitium AB (publ)	21-Jun-22
L-049-1991/5	Rubin, Jeffrey S	(b) (6)	Biovitium AB (publ)	21-Jun-22
L-296-2019/1	Bonomi, Carrie A.		Evelo Biosciences, Inc.	21-Jun-22
L-296-2019/1	Borgel, Suzanne D.		Evelo Biosciences, Inc.	21-Jun-22
L-296-2019/1	Dougherty, Kelly		Evelo Biosciences, Inc.	21-Jun-22
L-296-2019/1	Hollingshead, Melinda G.		Evelo Biosciences, Inc.	21-Jun-22
L-184-2018/1	Bonomi, Carrie A.		Xilio Development, Inc.	22-Jun-22
L-184-2018/1	Borgel, Suzanne D.		Xilio Development, Inc.	22-Jun-22
L-184-2018/1	Dougherty, Kelly		Xilio Development, Inc.	22-Jun-22
L-184-2018/1	Hollingshead, Melinda G.		Xilio Development, Inc.	22-Jun-22
L-109-2019/0	Bonomi, Carrie A.		F-star Biotechnology Ltd	22-Jun-22
L-109-2019/0	Dougherty, Kelly		F-star Biotechnology Ltd	22-Jun-22
L-109-2019/0	Hollingshead, Melinda G.		F-star Biotechnology Ltd	22-Jun-22
L-069-2021/0	Gao, Wei		Cytovia Therapeutics	22-Jun-22
L-069-2021/0	Ho, Mitchell		Cytovia Therapeutics	22-Jun-22
L-069-2021/0	Li, Dan		Cytovia Therapeutics	22-Jun-22
L-069-2021/0	Li, Nan		Cytovia Therapeutics	22-Jun-22
L-069-2021/0	Phung, Yen T.		Cytovia Therapeutics	22-Jun-22
L-069-2021/0	Zhang, Yifan		Cytovia Therapeutics	22-Jun-22
L-113-2022/0	Rader, Christoph		Lyell Immunopharma, Inc.	22-Jun-22
L-113-2022/0	Yang, Jiahui		Lyell Immunopharma, Inc.	22-Jun-22
L-113-2022/0	NCI		Lyell Immunopharma, Inc.	22-Jun-22
L-113-2022/0	Rader, Christoph	(b) (4)	Lyell Immunopharma, Inc.	22-Jun-22
L-113-2022/0	Yang, Jiahui	(b) (6)	Lyell Immunopharma, Inc.	22-Jun-22
L-209-2015/0	Gazdar, (b) (6) Adi		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Johnson, Bruce E		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Kaye, Frederic J		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Khleif, Samir N.		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Minna, John D.		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Oie, (b) (6) Herbert K		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Pass, Harvey I		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Gazdar, (b) (6) Adi		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Johnson, Bruce E		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Kaye, Frederic J		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Khleif, Samir N.		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Minna, John D.		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Oie, (b) (6) Herbert K		HistoCyte Laboratories	23-Jun-22
L-209-2015/0	Pass, Harvey I		HistoCyte Laboratories	23-Jun-22
L-081-2018/0	NCI		PathoVax LLV	23-Jun-22
L-072-2021/0	Bonomi, Carrie A.	(b) (4)	Bristol Myers Squibb	23-Jun-22
L-072-2021/0	Borgel, Suzanne D.	(b) (6)	Bristol Myers Squibb	23-Jun-22
L-072-2021/0	Dougherty, Kelly		Bristol Myers Squibb	23-Jun-22
L-072-2021/0	Hollingshead, Melinda G.		Bristol Myers Squibb	23-Jun-22
L-107-2021/0	Bonomi, Carrie A.		VerImmune Inc.	23-Jun-22
L-107-2021/0	Borgel, Suzanne D.		VerImmune Inc.	23-Jun-22

(b) (3) (A), (b) (4), (b) (6)

(b) (3) (A), (b) (4), (b) (6)

L-107-2021/0	Dougherty, Kelly	(b) (4)	VerImmune Inc.	23-Jun-22
L-107-2021/0	Hollingshead, Melinda G.	(b) (6)	VerImmune Inc.	23-Jun-22
L-115-2022/0	Choyke, Peter L		Koninklijke Philips N.V.	23-Jun-22
L-115-2022/0	Harmon, Stephanie Anne		Koninklijke Philips N.V.	23-Jun-22
L-115-2022/0	Lay, Nathan Stephan		Koninklijke Philips N.V.	23-Jun-22
L-115-2022/0	Mehralivand, Sherif		Koninklijke Philips N.V.	23-Jun-22
L-115-2022/0	Turkbey, Ismail B.		Koninklijke Philips N.V.	23-Jun-22
<i>Note: L-115-2022/0 split between CC; NCI</i>				
L-108-2019/0	Bonomi, Carrie A.		GB006 (Gossamer Bio, Inc.)	27-Jun-22
L-108-2019/0	Borgel, Suzanne D.		GB006 (Gossamer Bio, Inc.)	27-Jun-22
L-108-2019/0	Dougherty, Kelly		GB006 (Gossamer Bio, Inc.)	27-Jun-22
L-108-2019/0	Hollingshead, Melinda G.		GB006 (Gossamer Bio, Inc.)	27-Jun-22
L-190-2016/1	Bonomi, Carrie A.		Arcus Biosciences	28-Jun-22
L-190-2016/1	Borgel, Suzanne D.		Arcus Biosciences	28-Jun-22
L-190-2016/1	Dougherty, Kelly		Arcus Biosciences	28-Jun-22
L-190-2016/1	Hollingshead, Melinda G.		Arcus Biosciences	28-Jun-22
L-084-2019/0	Gelboin, (b) (6) Harry		Biopredic U.S., Inc.	28-Jun-22
L-084-2019/0	Gonzalez, Frank J.		Biopredic U.S., Inc.	28-Jun-22
L-084-2019/0	Krausz, Kristopher W.		Biopredic U.S., Inc.	28-Jun-22
L-040-2020/0	Greiner, John W.		Pfizer Inc.	28-Jun-22
L-040-2020/0	Schlom, Jeffrey		Pfizer Inc.	28-Jun-22
L-193-2021/0	Buck, Christopher		Baxter AG	29-Jun-22
L-193-2021/0	Pastrana, Diana V		Baxter AG	29-Jun-22
L-193-2021/0	Schiller, John T		Baxter AG	29-Jun-22
L-100-2022/0	Wakefield, Lalage M		Pliant Therapeutics, Inc.	30-Jun-22
L-100-2022/0	Yang, Yu-an		Pliant Therapeutics, Inc.	30-Jun-22

Note: L-100-2022/0 split between NCI; NIDDK

NIH Patent Licensing Activities
NCI
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	License Cumulative Total July Income	Inventor Awards July	Net Remaining to IC
L-064-2018/0	Bonomi, Carrie A.	(b) (4)	Sygnature Discovery	1-Jul-22					(b) (3) (A), (b) (4), (b) (6)
L-064-2018/0	Borgel, Suzanne D.	(b) (6)	Sygnature Discovery	1-Jul-22					
L-064-2018/0	Dougherty, Kelly		Sygnature Discovery	1-Jul-22					
L-064-2018/0	Hollingshead, Melinda G.		Sygnature Discovery	1-Jul-22					
L-164-2013/3	NCI		Aura Biosciences, Inc.	5-Jul-22					
L-024-2021/0	NCI		Vor Biopharma, Inc.	5-Jul-22					
L-024-2021/0	NCI		Vor Biopharma, Inc.	5-Jul-22					
L-052-2018/1	NCI		MedGene Therapeutics, Inc.	6-Jul-22					
L-080-1993/3	Hathcock, Karen	(b) (4)	BD Biosciences - BD PharMingen, Inc.	7-Jul-22					

L-080-1993/3	Hodes, Richard J	(b) (4)	BD Biosciences - BD PharMingen, Inc.	7-Jul-22
L-080-1993/3	Laszlo, Gloria	(b) (6)	BD Biosciences - BD PharMingen, Inc.	7-Jul-22
L-192-2015/2	Burgess, Rebecca C.		KeraFAST	7-Jul-22
L-192-2015/2	Misteli, Thomas		KeraFAST	7-Jul-22
L-192-2015/2	Roukos, Vasileios		KeraFAST	7-Jul-22
L-192-2015/2	Soutoglou, Evi		KeraFAST	7-Jul-22
L-037-2017/2	Esposito, Dominic		KeraFAST	7-Jul-22
L-037-2017/2	Hopkins, Ralph F.		KeraFAST	7-Jul-22
L-273-2014/0	Chang, Nancy T.		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Popovic, Mikulas		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Sarnagadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	11-Jul-22
L-273-2014/0	Shaw, George M		Grifols Worldwide Operations Ltd.	11-Jul-22
L-183-2018/0	Beyer, Rachel K. B.		Merck Sharp & Dohme	11-Jul-22
L-183-2018/0	(b) (4)		Merck Sharp & Dohme	11-Jul-22
L-183-2018/0	Holderfield, Matthew T.		Merck Sharp & Dohme	11-Jul-22
L-183-2018/0	Soppet, Dan		Merck Sharp & Dohme	11-Jul-22
L-224-2015/1	NCI		2seventy bio	14-Jul-22
L-232-2014/1	NCI		NanoString Technologies, Inc.	18-Jul-22
<i>Note: L-232-2014/1 split between CIT; NCI</i>				
L-232-2021/0	Gazdar, (b) (6) Adi	(b) (4)	August Bioservices, LLC	18-Jul-22
L-232-2021/0	Johnson, Bruce E	(b) (6)	August Bioservices, LLC	18-Jul-22
L-232-2021/0	Kaye, Frederic J		August Bioservices, LLC	18-Jul-22
L-232-2021/0	Khleif, Samir N.		August Bioservices, LLC	18-Jul-22
L-232-2021/0	Minna, John D.		August Bioservices, LLC	18-Jul-22
L-232-2021/0	Oie, (b) (6) Herbert K		August Bioservices, LLC	18-Jul-22
L-232-2021/0	Pass, Harvey I		August Bioservices, LLC	18-Jul-22
L-319-2017/0	Bonomi, Carrie A.		BioTech AG	19-Jul-22
L-319-2017/0	Borgel, Suzanne D.		BioTech AG	19-Jul-22
L-319-2017/0	Dougherty, Kelly		BioTech AG	19-Jul-22
L-319-2017/0	Hollingshead, Melinda G.		BioTech AG	19-Jul-22
L-064-2018/0	Bonomi, Carrie A.		Sygnature Discovery	19-Jul-22
L-064-2018/0	Borgel, Suzanne D.		Sygnature Discovery	19-Jul-22
L-064-2018/0	Dougherty, Kelly		Sygnature Discovery	19-Jul-22
L-064-2018/0	Hollingshead, Melinda G.		Sygnature Discovery	19-Jul-22
L-161-2021/0	Kozlov, Serguei		Nuevocor Pte. Ltd.	19-Jul-22
L-161-2021/0	Stewart, Colin L.		Nuevocor Pte. Ltd.	19-Jul-22
L-256-2017/0	Bonomi, Carrie A.		AbbVie	20-Jul-22
L-256-2017/0	Borgel, Suzanne D.		AbbVie	20-Jul-22
L-256-2017/0	Dougherty, Kelly		AbbVie	20-Jul-22
L-256-2017/0	Hollingshead, Melinda G.		AbbVie	20-Jul-22
L-256-2018/0	Bonomi, Carrie A.		Genentech, Inc.	20-Jul-22

(b) (3) (A), (b) (4), (b) (6)

L-256-2018/0	Dougherty, Kelly	(b) (4)	Genentech, Inc.	20-Jul-22
L-256-2018/0	Hollingshead, Melinda G.	(b) (6)	Genentech, Inc.	20-Jul-22
L-111-2019/0	Bonomi, Carrie A.		Innate Pharma Research Labs	20-Jul-22
L-111-2019/0	Borgel, Suzanne D.		Innate Pharma Research Labs	20-Jul-22
L-111-2019/0	Dougherty, Kelly		Innate Pharma Research Labs	20-Jul-22
L-111-2019/0	Hollingshead, Melinda G.		Innate Pharma Research Labs	20-Jul-22
L-307-2019/0	Bonomi, Carrie A.		Synthekine Inc	20-Jul-22
L-307-2019/0	Borgel, Suzanne D.		Synthekine Inc	20-Jul-22
L-307-2019/0	Dougherty, Kelly		Synthekine Inc	20-Jul-22
L-307-2019/0	Hollingshead, Melinda G.		Synthekine Inc	20-Jul-22
L-206-2021/1	Gazdar, (b) (6) Adi		ARC Therapeutics, LLC	20-Jul-22
L-206-2021/1	Johnson, Bruce E		ARC Therapeutics, LLC	20-Jul-22
L-206-2021/1	Kaye, Frederic J		ARC Therapeutics, LLC	20-Jul-22
L-206-2021/1	Khleif, Samir N.		ARC Therapeutics, LLC	20-Jul-22
L-206-2021/1	Minna, John D.		ARC Therapeutics, LLC	20-Jul-22
L-206-2021/1	Oie, (b) (6) Herbert K		ARC Therapeutics, LLC	20-Jul-22
L-206-2021/1	Pass, Harvey I		ARC Therapeutics, LLC	20-Jul-22
L-068-2018/2	Bonomi, Carrie A.		Dicerna Pharmaceuticals, Inc	21-Jul-22
L-068-2018/2	Dougherty, Kelly		Dicerna Pharmaceuticals, Inc	21-Jul-22
L-068-2018/2	Hollingshead, Melinda G.		Dicerna Pharmaceuticals, Inc	21-Jul-22
L-126-2020/0	Lam, Norris		Kite Pharma, Inc.	21-Jul-22
L-127-2020/0	Lam, Norris		Kite Pharma, Inc	21-Jul-22
L-151-2020/0	Gazdar, (b) (6) Adi		Harpoon Therapeutics	21-Jul-22
L-151-2020/0	Johnson, Bruce E		Harpoon Therapeutics	21-Jul-22
L-151-2020/0	Kaye, Frederic J		Harpoon Therapeutics	21-Jul-22
L-151-2020/0	Khleif, Samir N.		Harpoon Therapeutics	21-Jul-22
L-151-2020/0	Minna, John D.		Harpoon Therapeutics	21-Jul-22
L-151-2020/0	Oie, (b) (6) Herbert K		Harpoon Therapeutics	21-Jul-22
L-151-2020/0	Pass, Harvey I		Harpoon Therapeutics	21-Jul-22
L-080-2021/0	NCI		Rubius Therapeutics, Inc	21-Jul-22
L-129-2021/0	Bonomi, Carrie A.	(b) (4)	Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Borgel, Suzanne D.	(b) (6)	Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Buck, Christopher		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Dougherty, Kelly		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Gazdar, (b) (6) Adi		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Hamilton, Thomas C		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Hollingshead, Melinda G.		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Johnson, Bruce E		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Kaye, Frederic J		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Khleif, Samir N.		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Minna, John D.		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Oie, Estate of Herbert K		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Ozols, Robert F		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Pass, Harvey I		Crown Bioscience Inc.	22-Jul-22
L-129-2021/0	Schiller, John T		Crown Bioscience Inc.	22-Jul-22
L-241-2021/0	Beyer, Rachel K. B.		Lead Discovery Center GmbH	22-Jul-22
L-241-2021/0	(b) (4)		Lead Discovery Center GmbH	22-Jul-22

(b) (3) (A), (b) (4), (b) (6)

L-241-2021/0	Holderfield, Matthew T.	(b) (4)	Lead Discovery Center GmbH	22-Jul-22	(b) (3) (A), (b) (4), (b) (6)
L-241-2021/0	Soppet, Dan	(b) (6)	Lead Discovery Center GmbH	22-Jul-22	
L-209-2015/0	Gazdar, (b) (6) Adi		HistoCyte Laboratories	25-Jul-22	
L-209-2015/0	Johnson, Bruce E		HistoCyte Laboratories	25-Jul-22	
L-209-2015/0	Kaye, Frederic J		HistoCyte Laboratories	25-Jul-22	
L-209-2015/0	Khleif, Samir N.		HistoCyte Laboratories	25-Jul-22	
L-209-2015/0	Minna, John D.		HistoCyte Laboratories	25-Jul-22	
L-209-2015/0	Oie, (b) (6) Herbert K		HistoCyte Laboratories	25-Jul-22	
L-209-2015/0	Pass, Harvey I		HistoCyte Laboratories	25-Jul-22	
L-135-2022/0	Hanada, Kenichi		Iovance Biotherapeutics. Inc.	25-Jul-22	
L-135-2022/0	Yang, James Chung-Yin		Iovance Biotherapeutics. Inc.	25-Jul-22	
L-135-2022/0	Yu, Zhiya		Iovance Biotherapeutics. Inc.	25-Jul-22	
L-142-2006/2	NCI		Eli Lilly and Company	27-Jul-22	
L-064-2011/0	Barry, Todd	(b) (4)	Eptiomics Inc	27-Jul-22	
L-064-2011/0	Rosenwald, Andreas	(b) (6)	Eptiomics Inc	27-Jul-22	
L-064-2011/0	Staudt, Louis M		Eptiomics Inc	27-Jul-22	
L-064-2011/0	Wiestner, Adrian		Eptiomics Inc	27-Jul-22	
L-064-2011/0	Wilson, Wyndham H.		Eptiomics Inc	27-Jul-22	
L-329-2017/1	Gao, Wei		Abpro	27-Jul-22	
L-329-2017/1	Ho, Mitchell		Abpro	27-Jul-22	
L-329-2017/1	Phung, Yen T.		Abpro	27-Jul-22	
L-329-2017/1	Zhang, Yifan		Abpro	27-Jul-22	
L-232-2019/0	Palena, Claudia		Abcam plc	27-Jul-22	
L-232-2019/0	Schlom, Jeffrey		Abcam plc	27-Jul-22	
L-146-2020/0	Bonomi, Carrie A.		Harpoon Therapeutics	27-Jul-22	
L-146-2020/0	Borgel, Suzanne D.		Harpoon Therapeutics	27-Jul-22	
L-146-2020/0	Dougherty, Kelly		Harpoon Therapeutics	27-Jul-22	
L-146-2020/0	Hollingshead, Melinda G.		Harpoon Therapeutics	27-Jul-22	
L-097-2021/0	NCI		Senti Biosciences, Inc.	28-Jul-22	

NIH Patent Licensing Activities

NCI

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	NIH Patent Licensing Activities				Inventor Awards August	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income		
L-177-2019/0	Bonomi, Carrie A.	(b) (4)	Gilead Sciences, Inc	1-Aug-22					(b) (3) (A), (b) (4), (b) (6)	
L-177-2019/0	Borgel, Suzanne D.	(b) (6)	Gilead Sciences, Inc	1-Aug-22						
L-177-2019/0	Dougherty, Kelly		Gilead Sciences, Inc	1-Aug-22						
L-177-2019/0	Hollingshead, Melinda G.		Gilead Sciences, Inc	1-Aug-22						
L-155-2022/0	Bonomi, Carrie A.		Bicara Therapeutics Inc.	1-Aug-22					(b) (3) (A), (b) (4), (b) (6)	
L-155-2022/0	Borgel, Suzanne D.		Bicara Therapeutics Inc.	1-Aug-22						
L-155-2022/0	Dougherty, Kelly		Bicara Therapeutics Inc.	1-Aug-22						
L-155-2022/0	Hollingshead, Melinda G.		Bicara Therapeutics Inc.	1-Aug-22						
L-107-2015/2	NCI		Iovance Biotherapeutics. Inc.	3-Aug-22						

Note: L-107-2015/2 split between CC; NCI

L-024-2020/0	NCI	University of Louisville Research Founda	3-Aug-22
L-127-2020/1	NCI	Kite Pharma, Inc	3-Aug-22
L-201-2020/0	NCI	Navrogen Inc	4-Aug-22
L-147-2018/0	Bonomi, Carrie A.	(b) (4) Genentech	5-Aug-22
L-147-2018/0	Borgel, Suzanne D.	(b) (6) Genentech	5-Aug-22
L-147-2018/0	Dougherty, Kelly	Genentech	5-Aug-22
L-147-2018/0	Hollingshead, Melinda G.	Genentech	5-Aug-22
L-086-2022/0	Gazdar (b) (6) Adi	mmatics GmbH	5-Aug-22
L-086-2022/0	Johnson, Bruce E	mmatics GmbH	5-Aug-22
L-086-2022/0	Kaye, Frederic J	mmatics GmbH	5-Aug-22
L-086-2022/0	Khleif, Samir N.	mmatics GmbH	5-Aug-22
L-086-2022/0	Minna, John D.	mmatics GmbH	5-Aug-22
L-086-2022/0	Oie, (b) (6) Herbert K	mmatics GmbH	5-Aug-22
L-086-2022/0	Pass, Harvey I	mmatics GmbH	5-Aug-22
L-086-2022/0	Gazdar (b) (6) Adi	mmatics GmbH	5-Aug-22
L-086-2022/0	Johnson, Bruce E	mmatics GmbH	5-Aug-22
L-086-2022/0	Kaye, Frederic J	mmatics GmbH	5-Aug-22
L-086-2022/0	Khleif, Samir N.	mmatics GmbH	5-Aug-22
L-086-2022/0	Minna, John D.	mmatics GmbH	5-Aug-22
L-086-2022/0	Oie, (b) (6) Herbert K	mmatics GmbH	5-Aug-22
L-086-2022/0	Pass, Harvey I	mmatics GmbH	5-Aug-22
L-130-2022/0	Bonomi, Carrie A.	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Borgel, Suzanne D.	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Dougherty, Kelly	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Hollingshead, Melinda G.	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Bonomi, Carrie A.	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Borgel, Suzanne D.	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Dougherty, Kelly	Tectonic Therapeutics	5-Aug-22
L-130-2022/0	Hollingshead, Melinda G.	Tectonic Therapeutics	5-Aug-22
L-259-2017/0	NCI	CRISPR Therapeutics AG	8-Aug-22
L-076-2019/0	Gazdar, (b) (6) Adi	(b) (4) Salk Institute for Biological Studies	8-Aug-22
L-076-2019/0	Johnson, Bruce E	(b) (6) Salk Institute for Biological Studies	8-Aug-22
L-076-2019/0	Kaye, Frederic J	Salk Institute for Biological Studies	8-Aug-22
L-076-2019/0	Khleif, Samir N.	Salk Institute for Biological Studies	8-Aug-22
L-076-2019/0	Minna, John D.	Salk Institute for Biological Studies	8-Aug-22
L-076-2019/0	Oie, (b) (6) Herbert K	Salk Institute for Biological Studies	8-Aug-22
L-076-2019/0	Pass, Harvey I	Salk Institute for Biological Studies	8-Aug-22
L-297-2019/0	Bonomi, Carrie A.	Incyte Corporation	8-Aug-22
L-297-2019/0	Borgel, Suzanne D.	Incyte Corporation	8-Aug-22
L-297-2019/0	Dougherty, Kelly	Incyte Corporation	8-Aug-22
L-297-2019/0	Hodge, James W.	Incyte Corporation	8-Aug-22
L-297-2019/0	Hollingshead, Melinda G.	Incyte Corporation	8-Aug-22
L-297-2019/0	Schlom, Jeffrey	Incyte Corporation	8-Aug-22
L-143-2022/0	Barsov, Eugene V	Janssen Research & Development, LLC	8-Aug-22

(b) (3) (A), (b) (4), (b) (6)

L-143-2022/0	Ott, David E.	(b) (4) (b) (6) Janssen Research & Development, LLC	8-Aug-22	(b) (3) (A), (b) (4), (b) (6)
L-079-2008/0	Emmert-Buck, Michael R.	Avant Diagnostics, Inc	10-Aug-22	
L-079-2008/0	Liotta, Lance	Avant Diagnostics, Inc	10-Aug-22	
L-079-2008/0	Mehta, Arpita I	Avant Diagnostics, Inc	10-Aug-22	
L-079-2008/0	Simone, Nicole L	Avant Diagnostics, Inc	10-Aug-22	
<i>Note: L-079-2008/0 split between FDA; NCI</i>				
L-209-2016/0	Copeland, Neal	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Costantino, Nina	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Court, Donald	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Ellis, Hilary Moyed	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Jenkins Copeland, Nancy A	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Lee, E-Chiang	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Liu, Pentao	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Sharan, Shyam K	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Swaminathan, Srividya	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Warming, Soren	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-209-2016/0	Yu, Daiguan	GlaxoSmithKline Biologicals, S.A.	10-Aug-22	
L-163-2018/0	Bonomi, Carrie A.	Japan Tobacco	10-Aug-22	
L-163-2018/0	Borgel, Suzanne D.	Japan Tobacco	10-Aug-22	
L-163-2018/0	Dougherty, Kelly	Japan Tobacco	10-Aug-22	
L-163-2018/0	Hollingshead, Melinda G.	Japan Tobacco	10-Aug-22	
L-204-2019/0	Moore, William J.	Vanderbilt University	10-Aug-22	
L-204-2019/0	Neckers, Leonard	Vanderbilt University	10-Aug-22	
<i>Note: L-204-2019/0 split between NCATS; NCI</i>				
L-204-2019/0	Moore, William J.	Vanderbilt University	10-Aug-22	
L-204-2019/0	Neckers, Leonard	Vanderbilt University	10-Aug-22	
<i>Note: L-204-2019/0 split between NCATS; NCI</i>				
L-204-2019/0	Moore, William J.	Vanderbilt University	10-Aug-22	
L-204-2019/0	Neckers, Leonard	Vanderbilt University	10-Aug-22	
<i>Note: L-204-2019/0 split between NCATS; NCI</i>				
L-136-2020/0	Dudley, Mark	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Fitzgerald, Peter C.	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Gros, Alena	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Lu, Yong-Chen	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Palmer, Douglas	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Restifo, Nicholas P.	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Robbins, Paul F	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Tran, Eric	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Wunderlich, John	Intima Bioscience Inc.	10-Aug-22	
L-136-2020/0	Zheng, Zhili	Intima Bioscience Inc.	10-Aug-22	
L-264-2020/0	Neckers, Leonard	Vanderbilt University	10-Aug-22	
<i>Note: L-264-2020/0 split between NCATS; NCI</i>				
L-264-2020/0	Neckers, Leonard	Vanderbilt University	10-Aug-22	
<i>Note: L-264-2020/0 split between NCATS; NCI</i>				
L-264-2020/0	Neckers, Leonard	Vanderbilt University	10-Aug-22	
<i>Note: L-264-2020/0 split between NCATS; NCI</i>				

L-304-2019/0	Cafri, Gal	(b) (4)	Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Dudley, Mark	(b) (6)	Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Fitzgerald, Peter C.		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Gartner, Jared		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Gros, Alena		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Lu, Yong-Chen		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Robbins, Paul F		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Tran, Eric		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Wunderlich, John		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	Zheng, Zhili		Intellia Therapeutics, Inc	11-Aug-22
L-304-2019/0	NCI		Intellia Therapeutics, Inc	11-Aug-22
L-150-2022/0	Gottesman, Michael M.	(b) (4)	Cerevel Therapeutics, LLC	11-Aug-22
L-150-2022/0	Pastan, Ira H.	(b) (6)	Cerevel Therapeutics, LLC	11-Aug-22
L-150-2022/0	Ueda, Kazumitsu		Cerevel Therapeutics, LLC	11-Aug-22
L-002-2016/2	NCI		Kite Pharma	15-Aug-22
L-039-2011/0	Onda, Masanori	(b) (4)	Rockland Immunochemicals, Inc.	16-Aug-22
L-039-2011/0	Pastan, Ira H.	(b) (6)	Rockland Immunochemicals, Inc.	16-Aug-22
L-141-2022/0	Gazdar, (b) (6) Adi		Charles River Nederland B	16-Aug-22
L-141-2022/0	Johnson, Bruce E		Charles River Nederland B	16-Aug-22
L-141-2022/0	Kaye, Frederic J		Charles River Nederland B	16-Aug-22
L-141-2022/0	Khleif, Samir N.		Charles River Nederland B	16-Aug-22
L-141-2022/0	Minna, John D.		Charles River Nederland B	16-Aug-22
L-141-2022/0	Oie, (b) (6) Herbert K		Charles River Nederland B	16-Aug-22
L-141-2022/0	Pass, Harvey I		Charles River Nederland B	16-Aug-22
L-092-2011/1	Giardina, Steven		Millipore Sigma	17-Aug-22
L-092-2011/1	Longo, Dan L		Millipore Sigma	17-Aug-22
L-092-2011/1	Varesio, Luigi		Millipore Sigma	17-Aug-22
L-211-2017/0	Kahn, Richard A		Emory University	17-Aug-22
L-088-2019/1	Beyer, Rachel K. B.		Erasca, Inc.	17-Aug-22
L-088-2019/1	(b) (4)		Erasca, Inc.	17-Aug-22
L-088-2019/1	Holderfield, Matthew T.		Erasca, Inc.	17-Aug-22
L-088-2019/1	Soppet, Dan		Erasca, Inc.	17-Aug-22
L-204-2019/0	Moore, William J.		Vanderbilt University	17-Aug-22
L-204-2019/0	Neckers, Leonard		Vanderbilt University	17-Aug-22
<i>Note: L-204-2019/0 split between NCATS; NCI</i>				
L-270-2019/0	Bonomi, Carrie A.		Bluefin Biomedicine, Inc.	17-Aug-22
L-270-2019/0	Borgel, Suzanne D.		Bluefin Biomedicine, Inc.	17-Aug-22
L-270-2019/0	Dougherty, Kelly		Bluefin Biomedicine, Inc.	17-Aug-22
L-270-2019/0	Hollingshead, Melinda G.		Bluefin Biomedicine, Inc.	17-Aug-22
L-026-2020/0	Bonomi, Carrie A.		Imanis Life Sciences, LLC	17-Aug-22
L-026-2020/0	Borgel, Suzanne D.		Imanis Life Sciences, LLC	17-Aug-22
L-026-2020/0	Dougherty, Kelly		Imanis Life Sciences, LLC	17-Aug-22
L-026-2020/0	Hollingshead, Melinda G.		Imanis Life Sciences, LLC	17-Aug-22
L-264-2020/0	Neckers, Leonard		Vanderbilt University	17-Aug-22
<i>Note: L-264-2020/0 split between NCATS; NCI</i>				

(b) (3) (A), (b) (4), (b) (6)

L-158-2022/0	Baskar, Sivasubramanian	(b) (4) EMD Millipore Corporation	17-Aug-22
L-158-2022/0	Cheuk, Adam Tai Chi	(b) (6) EMD Millipore Corporation	17-Aug-22
L-158-2022/0	Dimitrov, Dimiter S.	EMD Millipore Corporation	17-Aug-22
L-158-2022/0	Khan, Javed	EMD Millipore Corporation	17-Aug-22
L-158-2022/0	Orentas, Rimas J.	EMD Millipore Corporation	17-Aug-22
L-158-2022/0	Zhu, Zhongyu	EMD Millipore Corporation	17-Aug-22
L-049-2001/3	Bustin, Michael	Millipore Sigma	18-Aug-22
L-123-2017/0	Bonomi, Carrie A.	Lupin Ltd.	19-Aug-22
L-123-2017/0	Dougherty, Kelly	Lupin Ltd.	19-Aug-22
L-123-2017/0	Hollingshead, Melinda G.	Lupin Ltd.	19-Aug-22
L-152-2022/0	Gazdar, (b) (6) Adi	intoDNA S.A.	19-Aug-22
L-152-2022/0	Johnson, Bruce E	intoDNA S.A.	19-Aug-22
L-152-2022/0	Kaye, Frederic J	intoDNA S.A.	19-Aug-22
L-152-2022/0	Khleif, Samir N.	intoDNA S.A.	19-Aug-22
L-152-2022/0	Minna, John D.	intoDNA S.A.	19-Aug-22
L-152-2022/0	Oie, (b) (6) Herbert K	intoDNA S.A.	19-Aug-22
L-152-2022/0	Pass, Harvey I	intoDNA S.A.	19-Aug-22
L-208-2013/0	NCI	Rakuten Medical	22-Aug-22
L-192-2019/0	Bonomi, Carrie A.	(b) (4) Hookipa Biotech GmbH	22-Aug-22
L-192-2019/0	Borgel, Suzanne D.	(b) (6) Hookipa Biotech GmbH	22-Aug-22
L-192-2019/0	Dougherty, Kelly	Hookipa Biotech GmbH	22-Aug-22
L-192-2019/0	Hollingshead, Melinda G.	Hookipa Biotech GmbH	22-Aug-22
L-255-2017/1	Borgel, Suzanne D.	nstitut De Recherches Servier	23-Aug-22
L-133-2020/0	Gartner, Suzanne	LumiraDx	23-Aug-22
L-155-2022/0	Borgel, Suzanne D.	Bicara Therapeutics Inc.	23-Aug-22
L-308-2019/0	Borgel, Suzanne D.	Microbiotica Ltd.	24-Aug-22
L-273-2014/0	Chang, Nancy T.	Grifols Worldwide Operations Ltd.	26-Aug-22
L-273-2014/0	Crowl, Robert	Grifols Worldwide Operations Ltd.	26-Aug-22
L-273-2014/0	Fisher, Amanda G.	Grifols Worldwide Operations Ltd.	26-Aug-22
L-273-2014/0	Hahn, Beatrice	Grifols Worldwide Operations Ltd.	26-Aug-22
L-273-2014/0	Reddy, E. Premkumar.	Grifols Worldwide Operations Ltd.	26-Aug-22
L-273-2014/0	Sarngadharan, Mangalasseril	Grifols Worldwide Operations Ltd.	26-Aug-22
L-224-2015/1	NCI	zseventy bio	26-Aug-22
L-006-2019/0	Gazdar, (b) (6) Adi	(b) (4) Genentech, Inc	26-Aug-22
L-006-2019/0	Johnson, Bruce E	(b) (6) Genentech, Inc	26-Aug-22
L-006-2019/0	Kaye, Frederic J	Genentech, Inc	26-Aug-22
L-006-2019/0	Khleif, Samir N.	Genentech, Inc	26-Aug-22
L-006-2019/0	Minna, John D.	Genentech, Inc	26-Aug-22
L-006-2019/0	Oie, (b) (6) Herbert K	Genentech, Inc	26-Aug-22
L-006-2019/0	Pass, Harvey I	Genentech, Inc	26-Aug-22
L-095-2012/0	Baskar, Sivasubramanian	BioLegend	29-Aug-22
L-095-2012/0	Rader, Christoph	BioLegend	29-Aug-22

(b) (3) (A), (b) (4), (b) (6)

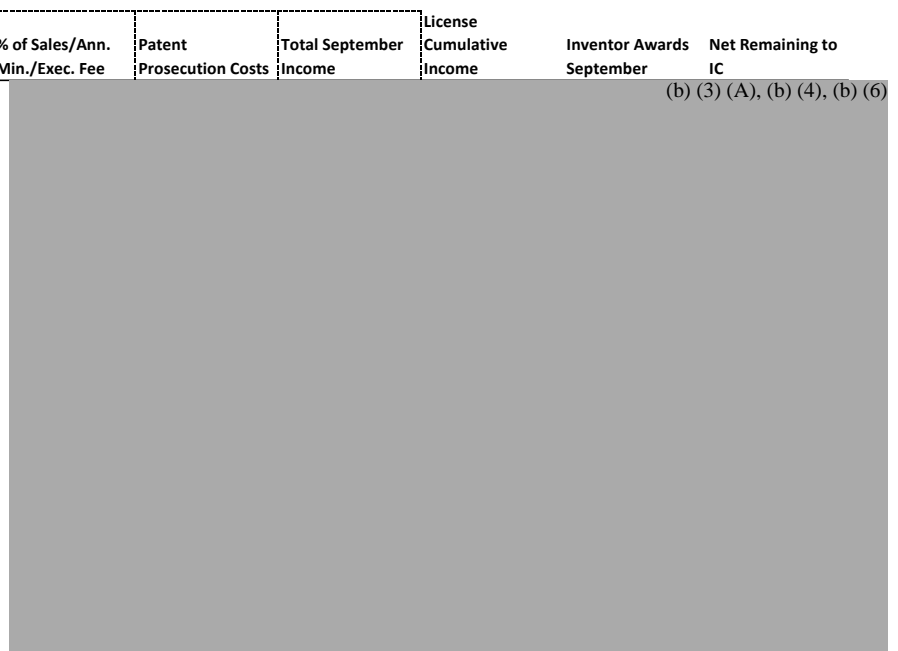
L-122-2017/0	Choyke, Peter L	(b) (4)	Koninklijke Philips N.V.	29-Aug-22
L-122-2017/0	Pinto, Peter A	(b) (6)	Koninklijke Philips N.V.	29-Aug-22
L-122-2017/0	Turkbey, Ismail B.		Koninklijke Philips N.V.	29-Aug-22
<i>Note: L-122-2017/0 split between CC; NCI</i>				
L-284-2019/0	Borgel, Suzanne D.		Molecular Partners AG	29-Aug-22
L-063-2022/0	Gazdar, (b) (6) Adi		Novartis Pharma AG	30-Aug-22
L-063-2022/0	Johnson, Bruce E		Novartis Pharma AG	30-Aug-22
L-063-2022/0	Kaye, Frederic J		Novartis Pharma AG	30-Aug-22
L-063-2022/0	Khleif, Samir N.		Novartis Pharma AG	30-Aug-22
L-063-2022/0	Minna, John D.		Novartis Pharma AG	30-Aug-22
L-063-2022/0	Oie, (b) (6) Herbert K		Novartis Pharma AG	30-Aug-22
L-063-2022/0	Pass, Harvey I		Novartis Pharma AG	30-Aug-22
L-133-2022/0	Gazdar (b) (6) Adi		C4 Therapeutics, Inc	30-Aug-22
L-133-2022/0	Johnson, Bruce E		C4 Therapeutics, Inc	30-Aug-22
L-133-2022/0	Kaye, Frederic J		C4 Therapeutics, Inc	30-Aug-22
L-133-2022/0	Khleif, Samir N.		C4 Therapeutics, Inc	30-Aug-22
L-133-2022/0	Minna, John D.		C4 Therapeutics, Inc	30-Aug-22
L-133-2022/0	Oie, (b) (6) Herbert K		C4 Therapeutics, Inc	30-Aug-22
L-133-2022/0	Pass, Harvey I		C4 Therapeutics, Inc	30-Aug-22
L-161-2022/0	(b) (6) Donald J. Giard		VCN Biosciences, S.L.	30-Aug-22
L-161-2022/0	Parks, Wade P.		VCN Biosciences, S.L.	30-Aug-22



(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NCI
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	September 2022			License Cumulative Income	Inventor Awards September	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income			
L-242-2017/0	Schlom, Jeffrey	(b) (4)	Amal Therapeutics	1-Sep-22					(b) (3) (A), (b) (4), (b) (6)	
L-059-2019/0	Spiese, Paul J	(b) (6)	Regeneron Pharmaceuticals, Inc	1-Sep-22						
L-059-2019/0	Yang, James Chung-Yin		Regeneron Pharmaceuticals, Inc	1-Sep-22						
L-248-2019/0	Hinrichs, Christian S.		Regeneron Pharmaceuticals, Inc.	1-Sep-22						
L-248-2019/0	Jin, Benjamin Yongzu		Regeneron Pharmaceuticals, Inc.	1-Sep-22						
L-310-2019/1	Borgel, Suzanne D.		Regeneron Pharmaceuticals, Inc.	1-Sep-22						
L-148-2021/0	NCI		Regeneron Pharmaceuticals, Inc.	1-Sep-22						
L-153-2022/0	Baskar, Sivasubramanian	(b) (4)	Immugenia Inc.	1-Sep-22						
L-153-2022/0	Cheuk, Adam Tai Chi	(b) (6)	Immugenia Inc.	1-Sep-22						
L-153-2022/0	Dimitrov, Dimiter S.		Immugenia Inc.	1-Sep-22						
L-153-2022/0	Ho, Mitchell		Immugenia Inc.	1-Sep-22						
L-153-2022/0	Khan, Javed		Immugenia Inc.	1-Sep-22						
L-153-2022/0	Li, Dan		Immugenia Inc.	1-Sep-22						
L-153-2022/0	Orentas, Rimas J.		Immugenia Inc.	1-Sep-22						
L-153-2022/0	St. Croix, Brad D.		Immugenia Inc.	1-Sep-22						
L-153-2022/0	Wang, Ruixue		Immugenia Inc.	1-Sep-22						
L-153-2022/0	Zhu, Zhongyu		Immugenia Inc.	1-Sep-22						



L-004-2007/2	Qasba, Pradman	(b) (4) Life Technologies Corp.	6-Sep-22
L-004-2007/2	Ramakrishnan, Boopathy	(b) (6) Life Technologies Corp.	6-Sep-22
L-262-2017/0	Borgel, Suzanne D.	Hutchison Medi Pharma Ltd.	7-Sep-22
L-203-1994/0	Jensen, Roy A.	BD Biosciences - BD PharMingen, Inc.	8-Sep-22
L-203-1994/0	LaRochelle, William	BD Biosciences - BD PharMingen, Inc.	8-Sep-22
L-203-1994/0	Matsui, Toshimitsu	BD Biosciences - BD PharMingen, Inc.	8-Sep-22
L-203-1994/0	Pierce, Jacalyn H.	BD Biosciences - BD PharMingen, Inc.	8-Sep-22
L-203-1994/0	Robbins, Keith	BD Biosciences - BD PharMingen, Inc.	8-Sep-22
L-154-1997/2	Mason, Llewellyn H.	BD Biosciences - BD PharMingen	8-Sep-22
L-154-1997/2	Ortaldo, John R.	BD Biosciences - BD PharMingen	8-Sep-22
L-097-2000/3	Austin, Faye C.	BD Biosciences, PharMingen	8-Sep-22
L-097-2000/3	Colcher, David	BD Biosciences, PharMingen	8-Sep-22
L-097-2000/3	Hand, Patricia H.	BD Biosciences, PharMingen	8-Sep-22
L-097-2000/3	Nuti, Marianna	BD Biosciences, PharMingen	8-Sep-22
L-097-2000/3	Schlom, Jeffrey	BD Biosciences, PharMingen	8-Sep-22
L-091-2011/0	Chang, Nancy T.	Quest Diagnostics, Inc.	8-Sep-22
L-091-2011/0	Fisher, Amanda G.	Quest Diagnostics, Inc.	8-Sep-22
L-091-2011/0	Hahn, Beatrice	Quest Diagnostics, Inc.	8-Sep-22
L-091-2011/0	(b) (4)	Quest Diagnostics, Inc.	8-Sep-22
L-091-2011/0	Sarngadharan, Mangalasseril	Quest Diagnostics, Inc.	8-Sep-22
L-159-2022/0	Gonzalez, Frank J.	ToxStrategies, Inc.	8-Sep-22
L-061-2005/3	Buck, Christopher	GlaxoSmithKline Biologicals, S.A.	9-Sep-22
L-061-2005/3	(b) (4)	GlaxoSmithKline Biologicals, S.A.	9-Sep-22
L-061-2005/3	Lowy, Douglas R.	GlaxoSmithKline Biologicals, S.A.	9-Sep-22
L-061-2005/3	Pastrana, Diana V	GlaxoSmithKline Biologicals, S.A.	9-Sep-22
L-061-2005/3	Roden, Richard B	GlaxoSmithKline Biologicals, S.A.	9-Sep-22
L-061-2005/3	Schiller, John T	GlaxoSmithKline Biologicals, S.A.	9-Sep-22
L-086-2011/0	Baskar, Sivasubramanian	Miltenyi Biotec GMBH	9-Sep-22
L-086-2011/0	Rader, Christoph	Miltenyi Biotec GMBH	9-Sep-22
L-170-2022/0	Borgel, Suzanne D.	Daiichi Sankyo Co., Ltd.	9-Sep-22
L-175-2007/1	Baba, Masaya	Immuquest Ltd	12-Sep-22
L-175-2007/1	Nickerson, Michael L.	Immuquest Ltd	12-Sep-22
L-175-2007/1	Schmidt, Laura S.	Immuquest Ltd	12-Sep-22
L-175-2007/1	Sharma, Nirmala D.	Immuquest Ltd	12-Sep-22
L-175-2007/1	Warren, Michelle B.	Immuquest Ltd	12-Sep-22
L-175-2007/1	Zbar, Berton	Immuquest Ltd	12-Sep-22
L-117-2021/1	Schlom, Jeffrey	Piramal Pharma Solutions UK Ltd.	12-Sep-22
L-168-2022/0	Esposito, Dominic	LEXEO Therapeutics, Inc.	13-Sep-22
L-168-2022/0	Hopkins, Ralph F.	LEXEO Therapeutics, Inc.	13-Sep-22
L-255-2019/0	NCI	BioE Holdings Inc.	14-Sep-22
L-053-2011/0	Mason, Llewellyn H.	(b) (4) Miltenyi Biotec Gmbh	15-Sep-22
L-053-2011/0	Ortaldo, John R.	(b) (6) Miltenyi Biotec Gmbh	15-Sep-22

L-082-2011/0	Makrigiannis, Andrew P.	(b) (4), (b) (6)	Miltenyi Biotec GMBH	15-Sep-22
L-086-2011/0	Baskar, Sivasubramanian		Miltenyi Biotec GMBH	15-Sep-22
L-086-2011/0	Rader, Christoph		Miltenyi Biotec GMBH	15-Sep-22
L-026-2012/0	Mason, Llewellyn H.		Miltenyi Biotec GMBH	15-Sep-22
L-026-2012/0	Ortaldo, John R.		Miltenyi Biotec GMBH	15-Sep-22
L-152-2020/0	Felber, Barbara K.		Cidara Therapeutics, Inc.	15-Sep-22
L-152-2020/0	Pavlakis, George N		Cidara Therapeutics, Inc.	15-Sep-22
L-331-2017/1	NCI		Istari Oncology Inc	20-Sep-22
L-202-2022/0	Fleming, Bryan	(b) (4), (b) (6)	Bio X Cell, LLC	20-Sep-22
L-202-2022/0	Ho, Mitchell		Bio X Cell, LLC	20-Sep-22
L-202-2022/0	Li, Nan		Bio X Cell, LLC	20-Sep-22
L-203-2022/0	Dimitrov, Dimiter S.		Bio X Cell, LLC	20-Sep-22
L-203-2022/0	Feng, Mingqian		Bio X Cell, LLC	20-Sep-22
L-203-2022/0	Gao, Wei		Bio X Cell, LLC	20-Sep-22
L-203-2022/0	Ho, Mitchell		Bio X Cell, LLC	20-Sep-22
L-203-2022/0	Kim, Heungnam		Bio X Cell, LLC	20-Sep-22
L-204-2022/0	Gao, Wei		Bio X Cell, LLC	20-Sep-22
L-204-2022/0	Hassan, Raffit		Bio X Cell, LLC	20-Sep-22
L-204-2022/0	Ho, Mitchell		Bio X Cell, LLC	20-Sep-22
L-204-2022/0	Pastan, Ira H.		Bio X Cell, LLC	20-Sep-22
L-204-2022/0	Phung, Yen T.		Bio X Cell, LLC	20-Sep-22
L-204-2022/0	Zhang, Yifan		Bio X Cell, LLC	20-Sep-22
L-205-2022/0	Gao, Wei		Bio X Cell, LLC	20-Sep-22
L-205-2022/0	Ho, Mitchell		Bio X Cell, LLC	20-Sep-22
L-205-2022/0	Phung, Yen T.		Bio X Cell, LLC	20-Sep-22
L-205-2022/0	Zhang, Yifan		Bio X Cell, LLC	20-Sep-22
L-259-2020/1	Borgel, Suzanne D.		STipe Therapeutics ApS	22-Sep-22
L-089-2018/0	Franchini, Genoveffa		AGC Biologics	23-Sep-22
L-089-2018/0	Kalyanaraman, Vaniambadi S.		AGC Biologics	23-Sep-22
L-089-2018/0	Markham, Phillip D.		AGC Biologics	23-Sep-22
L-089-2018/0	Salahuddin, Syed Z.		AGC Biologics	23-Sep-22
L-194-2019/0	Buck, Christopher		Etna Biotech Srl	23-Sep-22
L-194-2019/0	(b) (4)		Etna Biotech Srl	23-Sep-22
L-194-2019/0	Lowy, Douglas R.		Etna Biotech Srl	23-Sep-22
L-194-2019/0	Pastrana, Diana V		Etna Biotech Srl	23-Sep-22
L-194-2019/0	Roden, Richard B		Etna Biotech Srl	23-Sep-22
L-194-2019/0	Schiller, John T		Etna Biotech Srl	23-Sep-22
L-192-2022/0	Borgel, Suzanne D.		Kernal Biologics	28-Sep-22
L-194-2019/0	Buck, Christopher		Etna Biotech Srl	29-Sep-22
L-194-2019/0	(b) (4)		Etna Biotech Srl	29-Sep-22
L-194-2019/0	Lowy, Douglas R.		Etna Biotech Srl	29-Sep-22
L-194-2019/0	Pastrana, Diana V		Etna Biotech Srl	29-Sep-22
L-194-2019/0	Roden, Richard B		Etna Biotech Srl	29-Sep-22
L-194-2019/0	Schiller, John T		Etna Biotech Srl	29-Sep-22

L-319-2014/2	Gottesman, Michael M.	(b) (4)	WuXi AppTec (Shanghai) Co., Ltd.	30-Sep-22
L-319-2014/2	Pastan, Ira H.	(b) (6)	WuXi AppTec (Shanghai) Co., Ltd.	30-Sep-22
L-319-2014/2	Ueda, Kazumitsu		WuXi AppTec (Shanghai) Co., Ltd.	30-Sep-22
L-327-2017/0	NCI		Diagnostic BioSystems	30-Sep-22
L-094-2020/1	NCI		Innovative Cellular Therapeutics	30-Sep-22
L-136-2020/0	NCI		Intima Bioscience Inc.	30-Sep-22
L-158-2021/0	NCI		Kyverna Therapeutics	30-Sep-22
L-192-2022/0	Borgel, Suzanne D.	(b) (4)	Kernal Biologics	30-Sep-22
L-194-2022/0	Gazdar, (b) (6) Adi	(b) (6)	Daiichi Sankyo Co., Ltd.	30-Sep-22
L-194-2022/0	Johnson, Bruce E		Daiichi Sankyo Co., Ltd.	30-Sep-22
L-194-2022/0	Kaye, Frederic J		Daiichi Sankyo Co., Ltd.	30-Sep-22
L-194-2022/0	Khleif, Samir N.		Daiichi Sankyo Co., Ltd.	30-Sep-22
L-194-2022/0	Minna, John D.		Daiichi Sankyo Co., Ltd.	30-Sep-22
L-194-2022/0	Oie, (b) (6) Herbert K		Daiichi Sankyo Co., Ltd.	30-Sep-22
L-194-2022/0	Pass, Harvey I		Daiichi Sankyo Co., Ltd.	30-Sep-22

(b) (3) (A), (b) (4), (b) (6)

\$9,945,344.33	\$1,891,216.54	\$11,836,560.87	\$1,524,133.55	\$10,312,427.32
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NIH Patent Licensing Activities
NEI
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-088-2021/0	Bharti, Kapil	(b) (4)	Connectyx Technologies Holdings Group	2-May-22						(b) (3) (A), (b) (4), (b) (6)
L-088-2021/0	Clore-Gronenborn, Katharina	(b) (6)	Connectyx Technologies Holdings Group	2-May-22						
L-088-2021/0	Miyagishima, Kiyoharu		Connectyx Technologies Holdings Group	2-May-22						
L-020-2021/0	NEI		Opis Therapeutics, LLC	5-May-22						

NIH Patent Licensing Activities
NEI
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-193-2020/0	Bharti, Kapil	(b) (4)	Regeneron Pharmaceuticals, Inc.	3-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-193-2020/0	Davis, (b) (6) Janine A	(b) (6)	Regeneron Pharmaceuticals, Inc.	3-Jun-22						

Note: L-193-2020/0 split between NEI; NINDS

NIH Patent Licensing Activities
NEI
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-020-2021/0	NEI		Opis Therapeutics, LLC	13-Jul-22						(b) (3) (A), (b) (4)
L-020-2021/0	NEI		Opis Therapeutics, LLC	13-Jul-22						

NIH Patent Licensing Activities
NEI
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities

NEI
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-193-2020/0	Bharti, Kapil	(b) (4), (b) (6)	Regeneron Pharmaceuticals, Inc.	1-Sep-22						(b) (3) (A), (b) (4), (b) (6)
L-193-2020/0	Davis, (b) (6) Janine A	(b) (6)	Regeneron Pharmaceuticals, Inc.	1-Sep-22						
<i>Note: L-193-2020/0 split between NEI; NINDS</i>										
L-230-2002/1	NEI		Bausch & Lomb	20-Sep-22						
					\$4,093,703.96	\$160,772.95	\$4,254,476.91		\$5,564.30	\$4,248,912.61

NIH Patent Licensing Activities

NHGRI

April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities

NHGRI

May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-216-2017/0	Chandler, Randy J.	(b) (4)	Select a Biosciences, Inc.	20-May-22						(b) (3) (A), (b) (4), (b) (6)
L-216-2017/0	Venditti, Charles P.	(b) (6)	Select a Biosciences, Inc.	20-May-22						
L-216-2017/0	Chandler, Randy J.		Select a Biosciences, Inc.	20-May-22						
L-216-2017/0	Venditti, Charles P.		Select a Biosciences, Inc.	20-May-22						

NIH Patent Licensing Activities

NHGRI

June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-117-2022/0	Collins, Francis S	(b) (4)	Altos Labs, Inc.	27-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-117-2022/0	Erdos, Michael R.	(b) (6)	Altos Labs, Inc.	27-Jun-22						
L-117-2022/0	Eriksson, Maria		Altos Labs, Inc.	27-Jun-22						
L-117-2022/0	Varga, Renee		Altos Labs, Inc.	27-Jun-22						
L-117-2022/0	Collins, Francis S		Altos Labs, Inc.	27-Jun-22						
L-117-2022/0	Erdos, Michael R.		Altos Labs, Inc.	27-Jun-22						
L-117-2022/0	Eriksson, Maria		Altos Labs, Inc.	27-Jun-22						
L-117-2022/0	Varga, Renee		Altos Labs, Inc.	27-Jun-22						

NIH Patent Licensing Activities

NHGRI

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities

NHGRI

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NHGRI
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-055-2015/1	NHGRI		Bial-BioTech Investments, Inc.	9-Sep-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-055-2015/1 split between NCATS; NHGRI</i>										
L-045-2021/1	Chandler, Randy J.	(b) (4)	Novartis Gene Therapies, Inc	13-Sep-22						
L-045-2021/1	Pavan, William J	(b) (6)	Novartis Gene Therapies, Inc	13-Sep-22						
L-045-2021/1	Venditti, Charles P.		Novartis Gene Therapies, Inc	13-Sep-22						
L-183-2022/0	Chandler, Randy J.		Frontera Therapeutics, Inc.	15-Sep-22						
L-183-2022/0	Schneller, Jessica L.		Frontera Therapeutics, Inc.	15-Sep-22						
L-183-2022/0	Venditti, Charles P.		Frontera Therapeutics, Inc.	15-Sep-22						
					\$142,863.01	\$19,689.61	\$162,552.62		\$30,167.81	\$132,384.81

NIH Patent Licensing Activities
NHLBI
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-120-1997/2	Lee, Seung-Rock	(b) (4)	Millipore Sigma	4-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-120-1997/2	Rhee, Sue Goo	(b) (6)	Millipore Sigma	4-Apr-22						
L-104-2018/0	Ding, Chuan-Tian		LakePharma	13-Apr-22						
L-104-2018/0	Kotin, Robert M.		LakePharma	13-Apr-22						
L-104-2018/0	Urabe, Masashi		LakePharma	13-Apr-22						

NIH Patent Licensing Activities
NHLBI
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-256-2014/0	Combs, Christian A.	(b) (4), (b)	VisiTech International	5-May-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-256-2014/0 split between NHLBI; NIBIB</i>										
L-159-2007/2	NHLBI		Hope Pharmaceuticals	11-May-22						
<i>Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS</i>										
L-199-2018/1	(b) (4)	(b) (4)	Solid Biosciences	19-May-22						
L-199-2018/1	Kotin, Robert M.	(b) (6)	Solid Biosciences	19-May-22						
L-199-2018/1	Li, Lina		Solid Biosciences	19-May-22						
L-107-2007/3	Ding, Chuan-Tian		UniQure B.V.	20-May-22						
L-107-2007/3	Kotin, Robert M.		UniQure B.V.	20-May-22						
L-107-2007/3	Urabe, Masashi		UniQure B.V.	20-May-22						

NHLBI
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-058-2014/0	NHLBI		Spark Therapeutics Ireland Ltd	2-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-037-2021/0	(b) (4)	(b) (4)	Spark Therapeutics, Inc	2-Jun-22						
L-037-2021/0	Kotin, Robert M.	(b) (6)	Spark Therapeutics, Inc	2-Jun-22						
L-037-2021/0	Li, Lina		Spark Therapeutics, Inc	2-Jun-22						
L-039-2021/0	NHLBI		Siemens Healthcare GmbH	23-Jun-22						
L-039-2021/0	Hansen, Michael S.		Siemens Healthcare GmbH	23-Jun-22						
L-039-2021/0	Kellman, Peter		Siemens Healthcare GmbH	23-Jun-22						
L-039-2021/0	Xue, Hui		Siemens Healthcare GmbH	23-Jun-22						

L-039-2021/0	Hansen, Michael S.	(b) (4)	Siemens Healthcare GmbH	24-Jun-22
L-039-2021/0	Kellman, Peter	(b) (6)	Siemens Healthcare GmbH	24-Jun-22
L-039-2021/0	Xue, Hui		Siemens Healthcare GmbH	24-Jun-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NHLBI
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
L-327-2014/0	NHLBI		Voyager Therapeutics	8-Jul-22						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NHLBI
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License	Inventor Awards August	Net Remaining to IC
								Cumulative Income		
L-181-2017/0	NHLBI		Esteve Pharmaceuticals	3-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-181-2017/0	Ding, Chuan-Tian	(b) (4)	Esteve Pharmaceuticals	3-Aug-22						
L-181-2017/0	Kotin, Robert M.	(b) (6)	Esteve Pharmaceuticals	3-Aug-22						
L-181-2017/0	Urabe, Masashi		Esteve Pharmaceuticals	3-Aug-22						
L-209-2017/0	Derbyshire, John Andrew		General Electric Co.	3-Aug-22						
L-209-2017/0	(b) (4)		General Electric Co.	3-Aug-22						
L-209-2017/0	McVeigh, Elliott R		General Electric Co.	3-Aug-22						
L-209-2017/0	Nezafat, Reza		General Electric Co.	3-Aug-22						
L-170-2015/0	NHLBI		BioMarin Pharmaceuticals, Inc.	11-Aug-22						
L-120-1997/2	Lee, Seung-Rock	(b) (4)	Millipore Sigma	18-Aug-22						
L-120-1997/2	Rhee, Sue Goo	(b) (6)	Millipore Sigma	18-Aug-22						
L-090-2022/0	Dunbar, Cynthia E.		Vertex Pharmaceuticals Inc.	30-Aug-22						
L-090-2022/0	Hong, So Gun		Vertex Pharmaceuticals Inc.	30-Aug-22						
L-090-2022/0	Lin, Yongshun		Vertex Pharmaceuticals Inc.	30-Aug-22						
L-090-2022/0	Zou, Jizhong		Vertex Pharmaceuticals Inc.	30-Aug-22						

NIH Patent Licensing Activities
NHLBI
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License	Inventor Awards September	Net Remaining to IC
								Cumulative Income		
L-044-2008/1	Nirenberg, (b) (6) Marshall	(b) (4)	Miltenyi Biotec GMBH	15-Sep-22						(b) (3) (A), (b) (4), (b) (6)
L-044-2008/1	Walsh, Frank	(b) (6)	Miltenyi Biotec GMBH	15-Sep-22						

Note: L-044-2008/1 split between NHLBI; NIAID

L-106-2020/0 Finkel, Toren

(b) (4),
(b) (6) H. Lundbeck A/S

15-Sep-22

(b) (3) (A), (b) (4), (b) (6)

<u>\$1,311,763.30</u>	<u>\$45,354.45</u>	<u>\$1,357,117.75</u>	<u>\$379,167.33</u>	<u>\$977,950.42</u>

NIH Patent Licensing Activities
NIA
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
L-102-2013/1	Hodes, Richard J	(b) (4), (b) (6)	EXBIO Praha	8-Apr-22					(b) (3) (A), (b) (4), (b) (6)	

Note: L-102-2013/1 split between NCI; NIA

NIH Patent Licensing Activities
NIA
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
L-079-2017/0	Matarin Jimenez, Maria Del Mar	(b) (4), (b) (6)	VuEssence, Inc.	11-May-22					(b) (3) (A), (b) (4), (b) (6)	
L-079-2017/0	Singleton, Andrew B.	(b) (6)	VuEssence, Inc.	11-May-22						

Note: L-079-2017/0 split between NIA; NINDS; NINR

L-025-2017/1	Moaddel, Ruin		Tocris Bioscience	20-May-22						
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Note: L-025-2017/1 split between NCATS; NIA; NIMH

NIH Patent Licensing Activities
NIA
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		

NIH Patent Licensing Activities
NIA
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
L-270-2018/0	Ferrucci, Luigi	(b) (4), (b) (6)	The Regents of the University of Califor	20-Jul-22					(b) (3) (A), (b) (4), (b) (6)	

NIH Patent Licensing Activities
NIA
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License	Inventor Awards August	Net Remaining to IC
								Cumulative Income		
L-281-2014/1	NIA		Peptron	1-Aug-22						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities

NIA
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-025-2017/1	Moaddel, Ruin	(b) (4), (b) (6)	Tocris Bioscience	26-Sep-22						(b) (3) (A), (b) (4), (b) (6)

Note: L-025-2017/1 split between NCATS; NIA; NIMH

NIH Patent Licensing Activities
NIAAA
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-194-2005/1	Kunos, George I	(b) (4), (b) (6)	Tocris Bioscience	20-May-22						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAAA
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-162-2016/3	NIAAA		Inversago Pharma Inc.	12-Sep-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-162-2016/3 split between NIAAA; NIDA</i>										
L-257-2019/0	NIAAA		Inversago Pharma Inc	12-Sep-22						
<i>Note: L-257-2019/0 split between NIAAA; NIDA</i>										

NIH Patent Licensing Activities

NIAID

April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
L-142-2007/2	Mackett, Michael	(b) (4)	Transgene S.A.	1-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-142-2007/2	Moss, Bernard	(b) (6)	Transgene S.A.	1-Apr-22						
L-142-2007/2	Smith, Geoffrey L		Transgene S.A.	1-Apr-22						
L-068-2016/1	Cheng, Cheng		Emergent Biosolutions	1-Apr-22						
L-068-2016/1	Merritt, Joshua S.		Emergent Biosolutions	1-Apr-22						
L-068-2016/1	Schwartz, Richard M.		Emergent Biosolutions	1-Apr-22						
L-099-2014/3	Leppla, Stephen H.		KeraFAST	4-Apr-22						
L-099-2014/3	Leysath, Clinton E.		KeraFAST	4-Apr-22						
L-099-2014/3	Phillips, Damilola D.		KeraFAST	4-Apr-22						
L-065-2021/1	NIAID		Lyell Immunopharma, Inc.	5-Apr-22						
<i>Note: L-065-2021/1 split between NCI; NIAID</i>										
L-018-2021/0	(b) (4)	(b) (4)	ReiThera Srl	6-Apr-22						
L-018-2021/0		(b) (4)	ReiThera Srl	6-Apr-22						
L-018-2021/0		(b) (6)	ReiThera Srl	6-Apr-22						
L-018-2021/0	NIAID		ReiThera Srl	6-Apr-22						
L-018-2021/0	NIAID		ReiThera Srl	6-Apr-22						
L-303-2019/2	Chuang, Gwo-Yu	(b) (4)	TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Connors, Mark	(b) (6)	TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Georgiev, Ivelin S.		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Kwon, Young Do		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Kwong, Peter D.		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Nabel, Gary J.		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Rudicell, Rebecca S.		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Wu, Xueling		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	YANG, YONGPING		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Yang, Zhi-Yong		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Zhang, Baoshan		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Zhou, Tongqing		TaiMed Biologics USA, Inc.	7-Apr-22						
L-303-2019/2	Zhu, Jiang		TaiMed Biologics USA, Inc.	7-Apr-22						
L-240-2021/0	Akin, Cem		ALK-Abello A/S	7-Apr-22						
L-240-2021/0	Kirshenbaum, Arnold		ALK-Abello A/S	7-Apr-22						
L-240-2021/0	Metcalfe, Dean D		ALK-Abello A/S	7-Apr-22						
L-021-2010/1	Long, Eric O.		EXBIO Praha	8-Apr-22						
L-021-2010/1	Rajagopalan, Sumati		EXBIO Praha	8-Apr-22						
L-101-2014/1	DeVico, Angela M.		EXBIO Praha	8-Apr-22						
L-101-2014/1	Korty, Patricia E.		EXBIO Praha	8-Apr-22						
L-101-2014/1	Shevach, Ethan M		EXBIO Praha	8-Apr-22						
L-262-2020/0	NIAID		Sanofi Pasteur	8-Apr-22						
L-179-2020/0	(b) (4)	(b) (4)	BioNTech AG	11-Apr-22						
L-179-2020/0		(b) (6)	BioNTech AG	11-Apr-22						

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Notes
L-179-2020/0	(b) (4)	(b) (4), (b) (6)	BioNTech AG	11-Apr-22	(b) (3) (A), (b) (4), (b) (6)
L-040-2022/0	NIAID		Creative Biolabs, Inc.	13-Apr-22	
L-040-2022/0	NIAID		Creative Biolabs, Inc.	13-Apr-22	
L-080-2004/1	Green, Lisbeth Kim	(b) (4), (b) (6)	R-Biopharm AG	22-Apr-22	
L-080-2004/1	Sosnovtsev, Stanislav V	(b) (4), (b) (6)	R-Biopharm AG	22-Apr-22	
L-079-2022/0	Germain, Ronald N.		EMD Millipore Corporation	22-Apr-22	
L-079-2022/0	Porgador, Angel		EMD Millipore Corporation	22-Apr-22	
L-203-2019/3	Akin, Cem		AstraZeneca AB	25-Apr-22	
L-203-2019/3	Kirshenbaum, Arnold		AstraZeneca AB	25-Apr-22	
L-203-2019/3	Metcalfe, Dean D		AstraZeneca AB	25-Apr-22	
L-124-2018/0	Garboczi, David		Abcam plc	26-Apr-22	
L-124-2018/0	Lantz, Larry		Abcam plc	26-Apr-22	
L-124-2018/0	Leppla, Stephen H.		Abcam plc	26-Apr-22	
L-124-2018/0	Leysath, Clinton E.		Abcam plc	26-Apr-22	
L-124-2018/0	Phillips, Damilola D.		Abcam plc	26-Apr-22	
L-145-2021/0	Pegu, Amarendra		BioNTech AG	27-Apr-22	

NIH Patent Licensing Activities
NIAID
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-064-2021/0	Leppla, Stephen H.	(b) (4)	Oncorus, Inc.	2-May-22						(b) (3) (A), (b) (4), (b) (6)
L-064-2021/0	Liu, Shi-Hui	(b) (6)	Oncorus, Inc.	2-May-22						
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	2-May-22						(b) (3) (A), (b) (4), (b) (6)
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	2-May-22						
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	2-May-22						
L-078-2022/0	NIAID		Vaxxas Pty Ltd	2-May-22						
L-228-2016/1	Adachi, Akio	(b) (4)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Folks, Thomas M	(b) (6)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Leonard, John M.	(b) (6)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Martin, Malcolm A	(b) (6)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Rabson, Arnold B.	(b) (6)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Rutledge, Rosamond A.	(b) (6)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Theodore, (b) (6) Theodore S	(b) (6)	ViiV Healthcare Company	3-May-22						
L-228-2016/1	Willey, Ronald L.	(b) (6)	ViiV Healthcare Company	3-May-22						
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	3-May-22						
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	3-May-22						
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	3-May-22						
L-010-2022/0	Akin, Cem		Pfizer, Inc.	4-May-22						
L-010-2022/0	Kirshenbaum, Arnold		Pfizer, Inc.	4-May-22						
L-010-2022/0	Metcalfe, Dean D		Pfizer, Inc.	4-May-22						
L-078-2022/0	(b) (4)		Vaxxas Pty Ltd	4-May-22						

L-078-2022/0	(b) (4)	(b) (4), Vaxxas Pty Ltd	4-May-22	(b) (3) (A), (b) (4), (b) (6)	
L-078-2022/0	(b) (4)	(b) (6) Vaxxas Pty Ltd	4-May-22		
L-078-2022/0	(b) (4)	Vaxxas Pty Ltd	5-May-22		
L-078-2022/0	(b) (4)	Vaxxas Pty Ltd	5-May-22		
L-078-2022/0	(b) (4)	Vaxxas Pty Ltd	5-May-22		
L-080-2006/4	Blaney, Jr., Joseph E.	Panacea Biotech Ltd	6-May-22		
L-080-2006/4	Hanley, Kathryn	Panacea Biotech Ltd	6-May-22		
L-080-2006/4	Lai, Ching-Juh	Panacea Biotech Ltd	6-May-22		
L-080-2006/4	Murphy, Brian R.	Panacea Biotech Ltd	6-May-22		
L-080-2006/4	Whitehead, Stephen S.	Panacea Biotech Ltd	6-May-22		
<i>Note: L-080-2006/4 split between FDA; NIAID</i>					
L-250-2020/0	(b) (4)	Thermo Fisher Scientific Inc.	6-May-22		
L-250-2020/0	(b) (4)	Thermo Fisher Scientific Inc.	6-May-22		
L-250-2020/0	(b) (4)	Thermo Fisher Scientific Inc.	6-May-22		
L-099-2017/1	Akin, Cem	Ei Lilly and Company	9-May-22		
L-099-2017/1	Kirshenbaum, Arnold	Ei Lilly and Company	9-May-22		
L-099-2017/1	Metcalfe, Dean D	Ei Lilly and Company	9-May-22		
L-179-2020/0	(b) (4)	BioNTech AG	17-May-22		
L-179-2020/0	(b) (4)	BioNTech AG	17-May-22		
L-179-2020/0	(b) (4)	BioNTech AG	17-May-22		
L-145-2021/0	Pegu, Amarendra	BioNTech AG	17-May-22		
L-228-2016/1	Adachi, Akio	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Folks, Thomas M	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Leonard, John M.	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Martin, Malcolm A	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Rabson, Arnold B.	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Rutledge, Rosamond A.	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Theodore, (b) (6) Theodore S	ViiV Healthcare Company	24-May-22		
L-228-2016/1	Willey, Ronald L.	ViiV Healthcare Company	24-May-22		
L-097-2022/0	NIAID	MEVOX Ltd.	24-May-22		
L-097-2022/0	Loomis, Rebecca Jo	(b) (4), MEVOX Ltd.	24-May-22		
L-097-2022/0	Stewart-Jones, Guillaume BE	(b) (6) MEVOX Ltd.	24-May-22		
L-093-2005/4	Chakrabarti, Bimal K.	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Cheng, Cheng	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	(b) (6) Clement K. Asiedu	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Huang, (b) (6) Yue	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Mackett, Michael	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Moss, Bernard	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Nabel, Gary J.	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Smith, Geoffrey L	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Ward, Lucy A.	Janssen Vaccines & Prevention BV	25-May-22		
L-093-2005/4	Yang, Zhi-Yong	Janssen Vaccines & Prevention BV	25-May-22		
<i>Note: L-093-2005/4 split between CDC; NIAID</i>					
L-028-2019/2	NIAID	Ridgeback Biotherapeutics	25-May-22		
L-019-2020/2	Connors, Mark	(b) (4), (b) ViiV Healthcare UK (No.6) Ltd	25-May-22		
L-019-2020/2	Huang, Jinghe	(b) (6) ViiV Healthcare UK (No.6) Ltd	25-May-22		
L-019-2020/2	Ishida, Elise H.	ViiV Healthcare UK (No.6) Ltd	25-May-22		

L-019-2020/2	Kang, Byong Ha	(b) (4)	ViiV Healthcare UK (No.6) Ltd	25-May-22
L-019-2020/2	Kwong, Peter D.	(b) (4)	ViiV Healthcare UK (No.6) Ltd	25-May-22
L-019-2020/2	Zheng, Anqi	(b) (6)	ViiV Healthcare UK (No.6) Ltd	25-May-22
L-019-2020/2	Zhou, Tongqing	(b) (6)	ViiV Healthcare UK (No.6) Ltd	25-May-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NIAID
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-158-2020/1	NIAID		AbCellera Biologics Inc.	3-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-158-2020/1	NIAID		AbCellera Biologics Inc.	3-Jun-22						
L-010-2022/0	Akin, Cem	(b) (4)	Pfizer, Inc.	9-Jun-22						
L-010-2022/0	Kirshenbaum, Arnold	(b) (6)	Pfizer, Inc.	9-Jun-22						
L-010-2022/0	Metcalfe, Dean D		Pfizer, Inc.	9-Jun-22						
L-197-2005/6	Chanock, (b) (6) Robert		Serum Institute of India PVT. LTD	10-Jun-22						
L-197-2005/6	Hoshino, Yasutaka		Serum Institute of India PVT. LTD	10-Jun-22						
L-197-2005/6	Kapikian, (b) (6) Albert Z		Serum Institute of India PVT. LTD	10-Jun-22						
L-197-2005/6	Chanock, (b) (6) Robert		Serum Institute of India PVT. LTD	10-Jun-22						
L-197-2005/6	Hoshino, Yasutaka		Serum Institute of India PVT. LTD	10-Jun-22						
L-197-2005/6	Kapikian, (b) (6) Albert Z		Serum Institute of India PVT. LTD	10-Jun-22						
L-341-2017/1	Garboczi, David		Active Motif, Inc.	14-Jun-22						
L-341-2017/1	Lantz, Larry		Active Motif, Inc.	14-Jun-22						
L-341-2017/1	Leppla, Stephen H.		Active Motif, Inc.	14-Jun-22						
L-341-2017/1	Leysath, Clinton E.		Active Motif, Inc.	14-Jun-22						
L-341-2017/1	Phillips, Damilola D.		Active Motif, Inc.	14-Jun-22						
L-240-2021/0	Akin, Cem		ALK-Abello A/S	15-Jun-22						
L-240-2021/0	Kirshenbaum, Arnold		ALK-Abello A/S	15-Jun-22						
L-240-2021/0	Metcalfe, Dean D		ALK-Abello A/S	15-Jun-22						
L-022-2020/0	NIAID		University of Washington	16-Jun-22						
L-095-2022/0	Flynn, Barbara J.	(b) (4)	BioNTech AG	16-Jun-22						
L-095-2022/0	Francica, Joseph Richard	(b) (6)	BioNTech AG	16-Jun-22						
L-095-2022/0	Idris, Azza Hussein		BioNTech AG	16-Jun-22						
L-095-2022/0	Kisalu, Neville Kielau		BioNTech AG	16-Jun-22						
L-095-2022/0	Seder, Robert		BioNTech AG	16-Jun-22						
L-095-2022/0	Vistein, Rachel Marie		BioNTech AG	16-Jun-22						
L-095-2022/0	Wang, Lawrence Tsuchun		BioNTech AG	16-Jun-22						
L-123-2022/0	Akin, Cem		Santa Ana Bio, Inc.	16-Jun-22						
L-123-2022/0	Kirshenbaum, Arnold		Santa Ana Bio, Inc.	16-Jun-22						
L-123-2022/0	Metcalfe, Dean D		Santa Ana Bio, Inc.	16-Jun-22						
L-152-2002/4	Hsu, Su-Cheng Dana		Emergent BioDefense Operations Lansing I	22-Jun-22						
L-152-2002/4	Leppla, Stephen H.		Emergent BioDefense Operations Lansing I	22-Jun-22						
L-152-2002/4	Pomerantsev, Andrei P		Emergent BioDefense Operations Lansing I	22-Jun-22						
Note: L-152-2002/4 split between NIAID; NIDCR										
L-080-2006/4	Blaney, Jr., Joseph E.		Panacea Biotech Ltd	22-Jun-22						

(b) (3) (A), (b) (4), (b) (6)

L-080-2006/4	Hanley, Kathryn	(b) (4),	Panacea Biotech Ltd	22-Jun-22
L-080-2006/4	Lai, Ching-Juh	(b) (6)	Panacea Biotech Ltd	22-Jun-22
L-080-2006/4	Murphy, Brian R.		Panacea Biotech Ltd	22-Jun-22
L-080-2006/4	Whitehead, Stephen S.		Panacea Biotech Ltd	22-Jun-22
<i>Note: L-080-2006/4 split between FDA; NIAID</i>				
L-080-2006/4	NIAID		Panacea Biotech Ltd	22-Jun-22
<i>Note: L-080-2006/4 split between FDA; NIAID</i>				
L-191-2016/3	Akin, Cem	(b) (4),	GlaxoSmithKline LLC	22-Jun-22
L-191-2016/3	Kirshenbaum, Arnold	(b) (6)	GlaxoSmithKline LLC	22-Jun-22
L-191-2016/3	Metcalfe, Dean D		GlaxoSmithKline LLC	22-Jun-22
L-298-2019/0	Connors, Mark		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-298-2019/0	Huang, Jinghe		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-298-2019/0	Ishida, Elise H.		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-298-2019/0	Kang, Byong Ha		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-298-2019/0	Kwong, Peter D.		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-298-2019/0	Zheng, Anqi		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-298-2019/0	Zhou, Tongqing		GlaxoSmithKline Intellectual Property Li	22-Jun-22
L-080-2022/0	Chanock, (b) (6) Robert		Sinovac (Dalian) Vaccine Technology Co.,	22-Jun-22
L-080-2022/0	Hoshino, Yasutaka		Sinovac (Dalian) Vaccine Technology Co.,	22-Jun-22
L-080-2022/0	Kapikian, (b) (6) Albert Z		Sinovac (Dalian) Vaccine Technology Co.,	22-Jun-22
L-043-2018/0	Boyington, Jeffrey C.		MedImmune	28-Jun-22
L-043-2018/0	Chen, Lei		MedImmune	28-Jun-22
L-043-2018/0	Chen, Man		MedImmune	28-Jun-22
L-043-2018/0	Chuang, Gwo-Yu		MedImmune	28-Jun-22
L-043-2018/0	Georgiev, Ivelin S.		MedImmune	28-Jun-22
L-043-2018/0	Gorman, Jason		MedImmune	28-Jun-22
L-043-2018/0	Kwong, Peter D.		MedImmune	28-Jun-22
L-043-2018/0	McLellan, Jason Scott		MedImmune	28-Jun-22
L-043-2018/0	OFEK, GILAD A		MedImmune	28-Jun-22
L-043-2018/0	Pancera, Marie L.		MedImmune	28-Jun-22
L-043-2018/0	Sastry, Mallika		MedImmune	28-Jun-22
L-043-2018/0	Soto, Cinque		MedImmune	28-Jun-22
L-043-2018/0	Srivatsan, Sanjay R.		MedImmune	28-Jun-22
L-043-2018/0	Stewart-Jones, Guillaume BE		MedImmune	28-Jun-22
L-043-2018/0	YANG, YONGPING		MedImmune	28-Jun-22
L-043-2018/0	Zhang, Baoshan		MedImmune	28-Jun-22
L-043-2018/0	Zhou, Tongqing		MedImmune	28-Jun-22
L-257-2020/0	NIAID		GeoVax, Inc.	30-Jun-22

NIH Patent Licensing Activities

NIAID

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-020-2015/1	Leppla, Stephen H.	(b) (4),	KeraFAST	5-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-074-1991/3	Harriman, Gregory R.	(b) (6)	Becton, Dickson and Company	7-Jul-22						
L-074-1991/3	Kunimoto, Dennis Y.		Becton, Dickson and Company	7-Jul-22						
L-074-1991/3	Paul, (b) (6) William E.		Becton, Dickson and Company	7-Jul-22						
L-074-1991/3	Strober, Warren		Becton, Dickson and Company	7-Jul-22						

L-079-1993/2	Ohara, Junichi	(b) (4)	BD Biosciences - BD PharMingen	7-Jul-22
L-079-1993/2	Paul, (b) (6) William E.	(b) (6)	BD Biosciences - BD PharMingen	7-Jul-22
L-104-2022/0	Benn, Steven I		AbbVie, Inc.	7-Jul-22
L-104-2022/0	Clouse-Strebel, Kathleen A.		AbbVie, Inc.	7-Jul-22
L-104-2022/0	Folks, Thomas M		AbbVie, Inc.	7-Jul-22
L-104-2022/0	Martin, Malcolm A		AbbVie, Inc.	7-Jul-22
L-104-2022/0	Powell, Douglas M		AbbVie, Inc.	7-Jul-22
L-104-2022/0	Theodore, (b) (6) Theodore S		AbbVie, Inc.	7-Jul-22
L-009-2006/0	Collins, Peter L.		Apath, LLC	11-Jul-22
L-236-2016/2	Akin, Cem		IRBM Science Park S.p.A.	14-Jul-22
L-236-2016/2	Kirshenbaum, Arnold		IRBM Science Park S.p.A.	14-Jul-22
L-236-2016/2	Metcalfe, Dean D		IRBM Science Park S.p.A.	14-Jul-22
L-236-2016/2	Akin, Cem		IRBM Science Park S.p.A.	14-Jul-22
L-236-2016/2	Kirshenbaum, Arnold		IRBM Science Park S.p.A.	14-Jul-22
L-236-2016/2	Metcalfe, Dean D		IRBM Science Park S.p.A.	14-Jul-22
L-001-2015/2	Blaney, Jr., Joseph E.		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Bray, Michael		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Chanock, (b) (6) Robert		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Eckels, Kenneth H		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Hanley, Kathryn		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Lai, Ching-Juh		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Men, Ruhe		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Murphy, Brian R.		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Pletnev, Alexander G		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Whitehead, Stephen S.		Merck Sharp & Dohme, Corp.	18-Jul-22
L-001-2015/2	Zhang, Yi-Ming		Merck Sharp & Dohme, Corp.	18-Jul-22

Note: L-001-2015/2 split between FDA; NIAID

L-129-2022/0	Akin, Cem		Severn Therapeutics, LLC	18-Jul-22
L-129-2022/0	Kirshenbaum, Arnold		Severn Therapeutics, LLC	18-Jul-22
L-129-2022/0	Metcalfe, Dean D		Severn Therapeutics, LLC	18-Jul-22
L-124-2018/0	Garboczi, David		Abcam plc	19-Jul-22
L-124-2018/0	Lantz, Larry		Abcam plc	19-Jul-22
L-124-2018/0	Leppla, Stephen H.		Abcam plc	19-Jul-22
L-124-2018/0	Laysath, Clinton E.		Abcam plc	19-Jul-22
L-124-2018/0	Phillips, Damilola D.		Abcam plc	19-Jul-22
L-241-2013/0	Shevach, Ethan M		Tonbo Biotechnologies Corp	29-Jul-22

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total August	License Cumulative	Inventor Awards	Net Remaining to
L-044-2018/2	Boyington, Jeffrey C.	(b) (4)	ModernaTX, Inc.	1-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-044-2018/2	Buchholz, Ursula	(4)	ModernaTX, Inc.	1-Aug-22						
L-044-2018/2	Chen, Lei	(b) (6)	ModernaTX, Inc.	1-Aug-22						
L-044-2018/2	Chen, Man		ModernaTX, Inc.	1-Aug-22						
L-044-2018/2	Chuang, Gwo-Yu		ModernaTX, Inc.	1-Aug-22						

L-044-2018/2	Collins, Peter L.	(b) (4)	ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Druz, Aliaksandr A.	(b) (6)	ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Georgiev, Ivelin S.		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Gorman, Jason		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	(b) (4)		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Kwong, Peter D.		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	McLellan, Jason Scott		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	OFEK, GILAD A		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Ou, Li		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Pancera, Marie L.		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Sastry, Mallika		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Soto, Cinque		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Srivatsan, Sanjay R.		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Stewart-Jones, Guillaume BE		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Thomas, Paul V.		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Tsybovsky, Yaroslav		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Xu, Kai		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	YANG, YONGPING		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Zhang, Baoshan		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	Zhou, Tongqing		ModernaTX, Inc.	1-Aug-22
L-044-2018/2	NIAID		ModernaTX, Inc.	1-Aug-22
L-126-2022/0	Akin, Cem	(b) (4)	ImmunelD	2-Aug-22
L-126-2022/0	Kirshenbaum, Arnold	(b) (6)	ImmunelD	2-Aug-22
L-126-2022/0	Metcalfe, Dean D		ImmunelD	2-Aug-22
L-162-2015/2	NIAID		Merck Sharp and dohme	3-Aug-22
L-298-2019/0	NIAID		GlaxoSmithKline Intellectual Property Li	4-Aug-22
L-033-2021/0	(b) (4)	(b) (4)	ACROBiosystems Inc.	9-Aug-22
L-033-2021/0		(b) (6)	ACROBiosystems Inc.	9-Aug-22
L-033-2021/0			ACROBiosystems Inc.	9-Aug-22
L-144-2014/1	Baxa, Ulrich		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Boyington, Jeffrey C.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Chen, Lei		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Chen, Man		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Chuang, Gwo-Yu		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Druz, Aliaksandr A.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Georgiev, Ivelin S.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Gorman, Jason		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Kwong, Peter D.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	McLellan, Jason Scott		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	OFEK, GILAD A		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Ou, Li		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Pancera, Marie L.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Rundlet, Emily J		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Sastry, Mallika		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Soto, Cinque		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Srivatsan, Sanjay R.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Stewart-Jones, Guillaume BE		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Thomas, Paul V.		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Tsybovsky, Yaroslav		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Van Galen, Joseph		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	YANG, YONGPING		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Zhang, Baoshan		GlaxoSmithKline Biologicals SA	10-Aug-22
L-144-2014/1	Zhou, Tongqing		GlaxoSmithKline Biologicals SA	10-Aug-22

(b) (3) (A), (b) (4), (b) (6)

L-093-2005/4	NIAID	Janssen Vaccines & Prevention BV	11-Aug-22	(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-093-2005/4 split between CDC; NIAID</i>				
L-115-2000/2	Cheung, Yiu Chong Gordon	(b) (4), List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Gupta, Pradeep K.	(b) (6), List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Hsu, Su-Cheng Dana	List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Hu, Haijing	List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Leppla, Stephen H.	List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Leysath, Clinton E.	List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Moayeri, Mahtab	List Biological Laboratories, Inc.	12-Aug-22	
L-115-2000/2	Pomerantsev, Andrei P	List Biological Laboratories, Inc.	12-Aug-22	
<i>Note: L-115-2000/2 split between NIAID; NIDCR</i>				
L-279-2019/1	Boyington, Jeffrey C.	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Carey, Elizabeth	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Chen, Lei	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Chen, Man	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Chen, Mingzong	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Chen, Peifeng	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Chuang, Gwo-Yu	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Georgiev, Ivelin S.	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Ghosh, Mridul K.	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Gorman, Jason	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Horwitz, Joseph	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Kwong, Peter D.	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	McLellan, Jason Scott	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Nagy, Attila	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	OFEK, GILAD A	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Pancera, Marie L.	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Sastry, Mallika	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Soto, Cinque	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Srivatsan, Sanjay R.	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Stewart-Jones, Guillaume BE	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	(b) (4)	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	YANG, YONGPING	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Zhang, Baoshan	BlueWillow Biologics, Inc.	12-Aug-22	
L-279-2019/1	Zhou, Tongqing	BlueWillow Biologics, Inc.	12-Aug-22	
L-126-2022/0	Akin, Cem	mmuneID	16-Aug-22	
L-126-2022/0	Kirshenbaum, Arnold	mmuneID	16-Aug-22	
L-126-2022/0	Metcalfe, Dean D	mmuneID	16-Aug-22	
L-034-2015/0	Mackett, Michael	manis Life Sciences, LLC	17-Aug-22	
L-034-2015/0	Moss, Bernard	manis Life Sciences, LLC	17-Aug-22	
L-034-2015/0	Smith, Geoffrey L	manis Life Sciences, LLC	17-Aug-22	
L-149-2015/1	NIAID	Serum Institute of India Ltd.	17-Aug-22	
<i>Note: L-149-2015/1 split between FDA; NIAID</i>				
L-179-2020/0	(b) (4)	(b) (4), BioNTech AG	17-Aug-22	
L-179-2020/0		(b) (6), BioNTech AG	17-Aug-22	
L-179-2020/0		BioNTech AG	17-Aug-22	
L-154-2006/0	Mackett, Michael	Boehringer Ingelheim Animal Health USA I	18-Aug-22	
L-154-2006/0	Moss, Bernard	Boehringer Ingelheim Animal Health USA I	18-Aug-22	
L-154-2006/0	Smith, Geoffrey L	Boehringer Ingelheim Animal Health USA I	18-Aug-22	
L-275-2014/0	NIAID	CSL Behring (Australia)	19-Aug-22	

License	Inventor	Inventor Share %	Licensee	Date of Deposit	
L-346-2014/0	NIAID		Excell BIO, Inc.	23-Aug-22	(b) (3) (A), (b) (4), (b) (6)
L-121-2020/0	NIAID		Noachis Terra Inc	24-Aug-22	
L-175-2022/0	Dacon, Cherelle	(b) (4)	Leyden Laboratories BV (Marieke van der	24-Aug-22	
L-175-2022/0	Tan, Joshua Hoong Yu	(b) (6)	Leyden Laboratories BV (Marieke van der	24-Aug-22	
L-190-2020/0	Boyington, Jeffrey C.		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Chen, Lei		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Chen, Man		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Chuang, Gwo-Yu		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	(b) (4)		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Georgiev, Ivelin S.		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Gorman, Jason		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Kwong, Peter D.		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	McLellan, Jason Scott		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	OFEK, GILAD A		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Pancera, Marie L.		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Sastry, Mallika		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Soto, Cinque		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Srivatsan, Sanjay R.		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Stewart-Jones, Guillaume BE		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	(b) (4)		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	(b) (4)		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	YANG, YONGPING		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Zhang, Baoshan		Meso Scale Diagnostics, LLC	26-Aug-22	
L-190-2020/0	Zhou, Tongqing		Meso Scale Diagnostics, LLC	26-Aug-22	
L-157-2020/0	Germain, Ronald N.		Biologend, Inc.	29-Aug-22	
L-157-2020/0	Gerner, Michael Y		Biologend, Inc.	29-Aug-22	
L-157-2020/0	Li, Weizhe		Biologend, Inc.	29-Aug-22	
L-129-2022/0	Akin, Cem		Severn Therapeutics, LLC	29-Aug-22	
L-129-2022/0	Kirshenbaum, Arnold		Severn Therapeutics, LLC	29-Aug-22	
L-129-2022/0	Metcalfe, Dean D		Severn Therapeutics, LLC	29-Aug-22	
L-277-2018/1	Cohen, Jeffrey I.		Biological E Limited	30-Aug-22	
L-277-2018/1	Cox, Edward M.		Biological E Limited	30-Aug-22	
L-277-2018/1	Pesnicak, Lesley M		Biological E Limited	30-Aug-22	
L-277-2018/1	NIAID		Biological E Limited	30-Aug-22	
L-031-2020/0	Angermann, Bastian R	(b) (4)	Biohaven Pharmaceuticals Holding Company	30-Aug-22	
L-031-2020/0	Meier-Schellersheim, Martin	(b) (6)	Biohaven Pharmaceuticals Holding Company	30-Aug-22	

NIH Patent Licensing Activities
NIAID
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. IM	Patent	Total September	License Cumulative	Inventor Awards	Net Remaining to
L-147-2022/0	Akin, Cem	(b) (4)	Cimeio Therapeutics AG	1-Sep-22						(b) (3) (A), (b) (4), (b) (6)
L-147-2022/0	Kirshenbaum, Arnold	(b) (6)	Cimeio Therapeutics AG	1-Sep-22						
L-147-2022/0	Metcalfe, Dean D		Cimeio Therapeutics AG	1-Sep-22						
L-147-2022/0	Akin, Cem		Cimeio Therapeutics AG	1-Sep-22						

L-147-2022/0	Kirshenbaum, Arnold	(b) (4), Cimeio Therapeutics AG	1-Sep-22	(b) (3) (A), (b) (4), (b) (6)
L-147-2022/0	Metcalfe, Dean D	(b) (6) Cimeio Therapeutics AG	1-Sep-22	
L-164-2022/0	Bu, Wei	Grid Biosciences, LLC	1-Sep-22	
L-164-2022/0	Cohen, Jeffrey I.	Grid Biosciences, LLC	1-Sep-22	
L-164-2022/0	Nabel, Gary J.	Grid Biosciences, LLC	1-Sep-22	
L-202-2020/0	NIAID	International AIDS Vaccine Initiative, I	2-Sep-22	
L-016-2017/2	NIAID <i>Note: L-016-2017/2 split between NIAID; NIDCR</i>	Drugs & Diagnostics for Tropical Disease	7-Sep-22	
L-016-2017/2	Bennuru, Sasisekhar	(b) (4), Drugs & Diagnostics for Tropical Disease	7-Sep-22	
L-016-2017/2	Fink, Doran	(b) (6) Drugs & Diagnostics for Tropical Disease	7-Sep-22	
L-016-2017/2	Kubofcik, Joseph	Drugs & Diagnostics for Tropical Disease	7-Sep-22	
L-016-2017/2	Nutman, Thomas B.	Drugs & Diagnostics for Tropical Disease	7-Sep-22	
L-154-2022/0	Bennuru, Sasisekhar	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Fink, Doran	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Kubofcik, Joseph	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Nutman, Thomas B.	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Bennuru, Sasisekhar	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Fink, Doran	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Kubofcik, Joseph	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	Nutman, Thomas B.	Big Eye Diagnostics Inc	7-Sep-22	
L-154-2022/0	NIAID <i>Note: L-154-2022/0 split between NIAID; NIDCR</i>	Big Eye Diagnostics Inc	7-Sep-22	
L-226-2014/2	Nutman, Thomas B.	(b) (4), Quest Distribution Inc.	8-Sep-22	
L-131-2022/0	NIAID	(b) (6) Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Baxa, Ulrich	(b) Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Boyington, Jeffrey C.	(4), Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Chen, Lei	(b) Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Chen, Man	(6) Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Chuang, Gwo-Yu	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Druz, Aliaksandr A.	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Georgiev, Ivelin S.	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Gorman, Jason	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Kwong, Peter D.	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	McLellan, Jason Scott	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	OFEK, GILAD A	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Ou, Li	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Pancera, Marie L.	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Rundlet, Emily J	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Sastry, Mallika	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Soto, Cinque	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Srivatsan, Sanjay R.	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Stewart-Jones, Guillaume BE	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Thomas, Paul V.	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Tsybovsky, Yaroslav	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Van Galen, Joseph	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	YANG, YONGPING	Ceva Sante Animale S.A.	14-Sep-22	

				(b) (3) (A), (b) (4), (b) (6)	
L-131-2022/0	Zhang, Baoshan	(b) (4),	Ceva Sante Animale S.A.	14-Sep-22	
L-131-2022/0	Zhou, Tongqing	(b) (6)	Ceva Sante Animale S.A.	14-Sep-22	
L-084-2002/1	Shevach, Ethan M		Miltenyi Biotec GMBH	15-Sep-22	
L-044-2008/1	Eisenbarth, (b) (6) George <i>Note: L-044-2008/1 split between NHLBI; NIAID</i>		Miltenyi Biotec GMBH	15-Sep-22	
L-098-2010/0	Germain, Ronald N.		Miltenyi Biotec GmbH	15-Sep-22	
L-098-2010/0	Porgador, Angel		Miltenyi Biotec GmbH	15-Sep-22	
L-051-2011/0	DeVico, Angela M.		Miltenyi Biotec GmbH	15-Sep-22	
L-051-2011/0	Korty, Patricia E.		Miltenyi Biotec GmbH	15-Sep-22	
L-051-2011/0	Shevach, Ethan M		Miltenyi Biotec GmbH	15-Sep-22	
L-089-2012/0	Shevach, Ethan M		Miltenyi Biotec GMBH	15-Sep-22	
L-158-2020/1	NIAID		AbCellera Biologics Inc.	15-Sep-22	
L-157-2022/0	Akin, Cem	(b) (4),	Design Therapeutics, Inc.	20-Sep-22	
L-157-2022/0	Kirshenbaum, Arnold	(b) (6)	Design Therapeutics, Inc.	20-Sep-22	
L-157-2022/0	Metcalfe, Dean D		Design Therapeutics, Inc.	20-Sep-22	
L-150-2020/0	NIAID		Medigen Vaccine Biologics Corp	26-Sep-22	
L-333-2014/0	Fink, Doran	(b) (4), (b)	PATH Vaccine Solutions	27-Sep-22	
L-333-2014/0	Kubofcik, Joseph	(6)	PATH Vaccine Solutions	27-Sep-22	
L-333-2014/0	Nutman, Thomas B. <i>Note: L-333-2014/0 split between NIAID; NIDCR</i>		PATH Vaccine Solutions	27-Sep-22	
L-151-2022/0	Leppla, Stephen H.		EMD Millipore Corporation	27-Sep-22	
L-187-2022/0	Akin, Cem		Timelapse Vision Inc.	27-Sep-22	
L-187-2022/0	Kirshenbaum, Arnold		Timelapse Vision Inc.	27-Sep-22	
L-187-2022/0	Metcalfe, Dean D		Timelapse Vision Inc.	27-Sep-22	

\$452,753,000.43	\$388,151.72	\$453,141,152.15	\$233,467,083.30	\$219,674,068.85
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NIH Patent Licensing Activities
NIAMS
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NIAMS
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-076-2021/0	NIAMS		Petragen Inc.	25-May-22						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NIAMS
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-087-2018/0	Plotz, Paul H.	(b) (4)	Actus Therapeutics	7-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-087-2018/0	Raben, Nina	(b) (6)	Actus Therapeutics	7-Jun-22						
L-087-2018/0	Plotz, Paul H.		Actus Therapeutics	7-Jun-22						
L-087-2018/0	Raben, Nina		Actus Therapeutics	7-Jun-22						
L-076-2021/0	NIAMS		Petragen Inc.	17-Jun-22						

NIH Patent Licensing Activities
NIAMS
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIAMS
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
 NIAMS
 September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIBIB
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-256-2014/0	Parekh, Sapun	(b) (4)	VisiTech International	5-May-22						(b) (3) (A), (b) (4), (b) (6)
L-256-2014/0	Shroff, Hari	(b) (6)	VisiTech International	5-May-22						
L-256-2014/0	York, Andrew G.		VisiTech International	5-May-22						

Note: L-256-2014/0 split between NHLBI; NIBIB

NIH Patent Licensing Activities
NIBIB
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
(b) (3) (A), (b) (4), (b) (6)										

NIH Patent Licensing Activities
 NICHD
 April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-105-2022/0	Pacak, Karel	(b) (4)	NE1, Inc.	13-Apr-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-105-2022/0 split between NCI; NICHD</i>										
L-167-2017/0	Kaler, Stephen G.	(b) (6)	Cyprium Therapeutics Inc.	28-Apr-22						

NIH Patent Licensing Activities
 NICHD
 May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-101-2021/0	Chou, Janice Yang	(b) (4)	Sangamo Therapeutics, Inc.	6-May-22						(b) (3) (A), (b) (4), (b) (6)
L-280-2014/1	Gandjbakhche, Amir H	(b) (6)	Arche Opitex Biomedical, Inc.	31-May-22						
L-280-2014/1	(b) (4)		Arche Opitex Biomedical, Inc.	31-May-22						
L-280-2014/1	Riley, Jason D.		Arche Opitex Biomedical, Inc.	31-May-22						
<i>Note: L-280-2014/1 split between NICHD; NINDS</i>										

NIH Patent Licensing Activities
 NICHD
 June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
 NICHD
 July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-105-2021/0	Chou, Janice Yang	(b) (4), (b) (6)	GeneSpire	21-Jul-22						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 NICHD
 August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-261-2014/1	Blithe, Diana L.	(b) (4)	Laboratoire HRA Pharma Corporation	12-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-261-2014/1	Nieman, Lynnette K.	(b) (6)	Laboratoire HRA Pharma Corporation	12-Aug-22						

NIH Patent Licensing Activities
 NICHD
 September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-028-2022/0	Forlino, Antonella	(b) (4)	Itragenyx Pharmaceutical, Inc.	9-Sep-22						(b) (3) (A), (b) (4), (b) (6)
L-028-2022/0	Marini, Joan Carol	(b) (6)	Itragenyx Pharmaceutical, Inc.	9-Sep-22						
L-153-2021/0	Lawson, Nathan		egeneron Pharmaceuticals, Inc.	16-Sep-22						
L-153-2021/0	Weinstein, Brant		egeneron Pharmaceuticals, Inc.	16-Sep-22						
					\$225,441.01	\$0.00	\$225,441.01		\$51,832.76	\$173,608.25

NIH Patent Licensing Activities

NIDA

April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-250-2018/1	NIDA		Hello Bio Ltd.	1-Apr-22						(b) (3) (A), (b) (4)

Note: L-250-2018/1 split between NIDA; NINDS

NIH Patent Licensing Activities

NIDA

May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities

NIDA

June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-245-2017/1	NIDA		Braeburn Pharmaceuticals Inc.	28-Jun-22						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities

NIDA

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-282-2018/0	Cheng, Kejun	(b) (4)	Walter Reed Army Institute of Research	1-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-282-2018/0	Iyer, Malliga R.	(b) (6)	Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Jacobson, Arthur E.		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Li, Fuying		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Rice, Kenner C.		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Cheng, Kejun		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Iyer, Malliga R.		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Jacobson, Arthur E.		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Li, Fuying		Walter Reed Army Institute of Research	1-Jul-22						
L-282-2018/0	Rice, Kenner C.		Walter Reed Army Institute of Research	1-Jul-22						

NIH Patent Licensing Activities

NIDA

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIDA
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-162-2016/3	NIDA		Inversago Pharma Inc.	12-Sep-22						(b) (3) (A), (b) (4)
<i>Note: L-162-2016/3 split between NIAAAA; NIDA</i>										
L-257-2019/0	NIDA		Inversago Pharma Inc	12-Sep-22						
<i>Note: L-257-2019/0 split between NIAAAA; NIDA</i>										
					\$36,600.00	\$3,642.00	\$40,242.00		\$7,190.00	\$33,052.00

NIH Patent Licensing Activities
NIDCD
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-084-2010/0	Drayna, Dennis T.	(b) (4)	Firmenich Inc.	7-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-084-2010/0	Kim, Un-kyung	(b) (6)	Firmenich Inc.	7-Jun-22						
L-084-2010/0	(b) (4)		Firmenich Inc.	7-Jun-22						

NIH Patent Licensing Activities
NIDCD
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-214-1992/8	RJ Wenthold (b) (6)	(b) (4), (b) (6)	Millipore Sigma	18-Aug-22						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIDCD
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-016-2020/0	Canseco De Kalinec, Gilda Mabel	(b) (4)	Regeneron Pharmaceuticals, Inc	1-Sep-22						(b) (3) (A), (b) (4), (b) (6)
L-016-2020/0	Kalinec, Federico	(b) (6)	Regeneron Pharmaceuticals, Inc	1-Sep-22						

L-036-2020/0 Canseco De Kalinec, Gilda Mabel
L-036-2020/0 Kalinec, Federico

(b) (4),
(b) (6) Regeneron Pharmaceuticals, Inc
Regeneron Pharmaceuticals, Inc

1-Sep-22
1-Sep-22

(b) (3) (A), (b) (4), (b) (6)				
\$36,620.83	\$0.00	\$36,620.83	\$13,195.34	\$23,425.49

NIH Patent Licensing Activities
NIDCR
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		

NIH Patent Licensing Activities
NIDCR
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
L-152-2017/0	Akiyama, Steven	(b) (4)	Millipore Sigma	18-May-22						(b) (3) (A), (b) (4), (b) (6)
L-152-2017/0	Yamada, Kenneth	(b) (6)	Millipore Sigma	18-May-22						
L-152-2017/0	Yamada, Susan Sleeper		Millipore Sigma	18-May-22						

NIH Patent Licensing Activities
NIDCR
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		
L-048-2003/1	NIDCR		Lees Pharmaceutical (HK) LTD	21-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-152-2002/4	Leppla, Stephen H.	(b) (4)	Emergent BioDefense Operations Lansing I	22-Jun-22						
L-152-2002/4	Park, Sukjoon	(b) (6)	Emergent BioDefense Operations Lansing I	22-Jun-22						
L-152-2002/4	Quinn, Conrad P.		Emergent BioDefense Operations Lansing I	22-Jun-22						
L-152-2002/4	Singh, Yogendra		Emergent BioDefense Operations Lansing I	22-Jun-22						

Note: L-152-2002/4 split between NIAID; NIDCR

NIH Patent Licensing Activities
NIDCR
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
L-263-2018/0	NIDCR		MeiraGTX	27-Jul-22						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NIDCR
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License	Inventor Awards August	Net Remaining to IC
								Cumulative Income		
L-078-2015/0	Chiorini, John A.	(b) (4)	Spark Therapeutics, Inc.	4-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-078-2015/0	Kaludov, Nikola	(b) (6)	Spark Therapeutics, Inc.	4-Aug-22						

L-115-2000/2	Leppla, Stephen H.	(b) (4), List Biological Laboratories, Inc.	12-Aug-22
<i>Note: L-115-2000/2 split between NIAID; NIDCR</i>			
L-343-2001/0	Keith, Jerry M	List Biological Laboratories, Inc.	12-Aug-22
L-343-2001/0	Merkel, Todd J.	List Biological Laboratories, Inc.	12-Aug-22
L-343-2001/0	Yang, Xiaoming	List Biological Laboratories, Inc.	12-Aug-22
L-152-2017/0	Akiyama, Steven	Millipore Sigma	18-Aug-22
L-152-2017/0	Yamada, Kenneth	Millipore Sigma	18-Aug-22
L-152-2017/0	Yamada, Susan Sleeper	Millipore Sigma	18-Aug-22

(b) (3) (A), (b) (4), (b) (6)

**NIH Patent Licensing Activities
NIDCR
September 2022**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-016-2017/2	NIDCR		Drugs & Diagnostics for Tropical Disease	7-Sep-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-016-2017/2 split between NIAID; NIDCR</i>										
L-016-2017/2	Burbelo, Peter D.	(b) (4), (b) (6)	Drugs & Diagnostics for Tropical Disease	7-Sep-22						
<i>Note: L-016-2017/2 split between NIAID; NIDCR</i>										
L-154-2022/0	Burbelo, Peter D.		ig Eye Diagnostics Inc	7-Sep-22						
<i>Note: L-154-2022/0 split between NIAID; NIDCR</i>										
L-154-2022/0	Burbelo, Peter D.		ig Eye Diagnostics Inc	7-Sep-22						
<i>Note: L-154-2022/0 split between NIAID; NIDCR</i>										
L-154-2022/0	NIDCR		ig Eye Diagnostics Inc	7-Sep-22						
<i>Note: L-154-2022/0 split between NIAID; NIDCR</i>										
L-333-2014/0	Burbelo, Peter D.		ATH Vaccine Solutions	27-Sep-22						
<i>Note: L-333-2014/0 split between NIAID; NIDCR</i>										
					\$80,180.85	\$1,943.00	\$82,123.85		\$20,751.55	\$61,372.30

NIH Patent Licensing Activities
NIDDK
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-339-2017/0	Appella, Daniel H	(b) (4)	Altra Tech Ltd	6-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-339-2017/0	Englund, Ethan A.	(b) (6)	Altra Tech Ltd	6-Apr-22						
L-339-2017/0	Micklitsch, Christopher		Altra Tech Ltd	6-Apr-22						
L-339-2017/0	Wang, Deyun		Altra Tech Ltd	6-Apr-22						
L-339-2017/0	Yemane, Bereket		Altra Tech Ltd	6-Apr-22						
L-339-2017/0	Zhang, Ning		Altra Tech Ltd	6-Apr-22						
L-339-2017/0	Zhao, Chao		Altra Tech Ltd	6-Apr-22						
L-190-2017/1	Gomez, Jesus		Janssen Pharmaceuticals, Inc.	20-Apr-22						
L-190-2017/1	Wess, Jurgen		Janssen Pharmaceuticals, Inc.	20-Apr-22						
L-190-2017/1	Yamada, Masahisa		Janssen Pharmaceuticals, Inc.	20-Apr-22						
L-100-2022/0	Rane, Sushil Gopal		Pliant Therapeutics, Inc.	27-Apr-22						

Note: L-100-2022/0 split between NCI; NIDDK

NIH Patent Licensing Activities
NIDDK
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-010-2002/1	Sauer, Brian	(b) (4), (b) (6)	Sigma-Aldrich Israel Ltd	10-May-22						(b) (3) (A), (b) (4), (b) (6)
L-159-2007/2	NIDDK		Hope Pharmaceuticals	11-May-22						

Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS

L-265-2002/0	Jacobson, Kenneth A	(b) (4), (b) (6)	Tocris Cookson, Ltd.	20-May-22						
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Note: L-265-2002/0 split between NCI; NIDDK

NIH Patent Licensing Activities
NIDDK
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-100-2022/0	Rane, Sushil Gopal	(b) (4), (b) (6)	Pliant Therapeutics, Inc.	30-Jun-22						(b) (3) (A), (b) (4), (b) (6)

Note: L-100-2022/0 split between NCI; NIDDK

NIH Patent Licensing Activities
NIDDK

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-174-2015/1	Chung, Jay	(b) (4)	Pfizer, Inc	6-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-174-2015/1	Felsenfeld, Gary	(b) (6)	Pfizer, Inc	6-Jul-22						

NIH Patent Licensing Activities

NIDDK

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-149-2017/0	Oral, Elif A.	(b) (4)	Aegerion Pharmaceuticals, Inc.	29-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-149-2017/0	Taylor, Simeon	(b) (6)	Aegerion Pharmaceuticals, Inc.	29-Aug-22						

NIH Patent Licensing Activities

NIDDK

September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$111,943.90	\$0.00	\$111,943.90		\$27,205.04	\$84,738.86

NIH Patent Licensing Activities
NIEHS
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-010-2005/4	DiAugustine, Richard P	(b) (4)	Millipore Sigma	4-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-010-2005/4	Teng, Christina Tu	(b) (6)	Millipore Sigma	4-Apr-22						
L-063-1993/2	Eddy, Edward		ThermoFisher Scientific	11-Apr-22						
L-134-2013/1	Mishina, Yuji		Clementia Pharmaceuticals Inc	14-Apr-22						
L-134-2013/1	Ray, Manas K.		Clementia Pharmaceuticals Inc	14-Apr-22						
L-134-2013/1	Scott, Gregory J.		Clementia Pharmaceuticals Inc	14-Apr-22						

NIH Patent Licensing Activities
NIEHS
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-079-2016/3	Baek, Seung Joon	(b) (4), (b) (6)	Janssen Research & Development, LLC	9-Jun-22						(b) (3) (A), (b) (4), (b) (6)
L-079-2016/3	Eling, Thomas E.		Janssen Research & Development, LLC	9-Jun-22						

NIH Patent Licensing Activities
NIEHS
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS

September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-063-1993/2	Eddy, Edward	(b) (4), (b) (6)	ThermoFisher Scientific	15-Sep-22						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIMH
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-185-2020/0	NIMH		Defender Pharmaceuticals, Inc	18-Apr-22						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NIMH
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-261-2016/0	Eiden, Maribeth V.	(b) (4)	Fred Hutchinson Cancer Research Center	4-May-22						(b) (3) (A), (b) (4), (b) (6)
L-261-2016/0	Wilson, Carolyn A.	(b) (6)	Fred Hutchinson Cancer Research Center	4-May-22						
L-185-2020/0	Drevets, Wayne C		Defender Pharmaceuticals, Inc	13-May-22						
L-185-2020/0	Furey, Maura L.		Defender Pharmaceuticals, Inc	13-May-22						
L-025-2017/1	Zarate, Carlos A.		Tocris Bioscience	20-May-22						

Note: L-025-2017/1 split between NCATS; H

NIH Patent Licensing Activities
NIMH
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIMH
July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-018-2010/0	Manji, Hussein K.	(b) (4), (b) (6)	Mount Sinai Med Cntr	15-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-018-2010/0	Zarate, Carlos A.		Mount Sinai Med Cntr	15-Jul-22						
L-026-2019/0	Swedo, Susan E		oard of Regents of the University of Ok	21-Jul-22						

NIH Patent Licensing Activities
NIMH
August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIMH
September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-018-2010/0	Manji, Hussein K.	(b) (4), (b) (6)	Mount Sinai Med Cntr	23-Sep-22						(b) (3) (A), (b) (4), (b) (6)
L-018-2010/0	Zarate, Carlos A.	(b) (6)	Mount Sinai Med Cntr	23-Sep-22						
L-025-2017/1	NIMH		Tocris Bioscience	26-Sep-22						

Note: L-025-2017/1 split between NCATS; NIA; NIMH

\$965,188.38	\$5,444.00	\$970,632.38	\$185,757.28	\$784,875.10
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NIH Patent Licensing Activities
NINDS
April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-250-2018/1	NINDS		Hello Bio Ltd.	1-Apr-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-250-2018/1 split between NIDA; NINDS</i>										
L-007-2019/0	Hsu, Yite	(b) (4), (b) (6)	Abcam plc	22-Apr-22						
L-007-2019/0	Youle, Richard J.		Abcam plc	22-Apr-22						

NIH Patent Licensing Activities
NINDS
May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-159-2007/2	NINDS		Hope Pharmaceuticals	11-May-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-159-2007/2 split between CC; NHLBI; NIDDK; NINDS</i>										
L-079-2017/0	Warach, Steven J.	(b) (4), (b) (6)	VuEssence, Inc.	11-May-22						
<i>Note: L-079-2017/0 split between NIA; NINDS; NINR</i>										
L-280-2014/1	Amyot, Franck		Arche Opitex Biomedical, Inc.	31-May-22						
L-280-2014/1	Wasserman, Eric M.		Arche Opitex Biomedical, Inc.	31-May-22						
<i>Note: L-280-2014/1 split between NICHHD; NINDS</i>										

NIH Patent Licensing Activities
NINDS
June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-193-2020/0	Bharti, Kapil	(b) (4), (b) (6)	Regeneron Pharmaceuticals, Inc.	3-Jun-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-193-2020/0 split between NEI; NINDS</i>										
L-208-2001/3	Hou, Jean		Millipore Sigma	6-Jun-22						
L-208-2001/3	Major, Eugene O		Millipore Sigma	6-Jun-22						
L-208-2001/3	Messam, Conrad A		Millipore Sigma	6-Jun-22						
L-085-2022/0	Ward, Michael Emmerson		Bristol-Myers Squibb Company	22-Jun-22						
L-208-2001/3	Hou, Jean		Millipore Sigma	24-Jun-22						
L-208-2001/3	Major, Eugene O		Millipore Sigma	24-Jun-22						
L-208-2001/3	Messam, Conrad A		Millipore Sigma	24-Jun-22						

NIH Patent Licensing Activities
NINDS

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-138-2022/0	Badger II, John D.	(b) (4)	MD Millipore Coqrporation	19-Jul-22						(b) (3) (A), (b) (4), (b) (6)
L-138-2022/0	Nguyen, Thien Anh	(b) (6)	MD Millipore Coqrporation	19-Jul-22						
L-138-2022/0	Roche, Katherine W.		MD Millipore Coqrporation	19-Jul-22						
L-139-2022/0	Badger II, John D.		MD Millipore Corporation	19-Jul-22						
L-139-2022/0	Mota Vieira, Marta Isabel Dias Da		MD Millipore Corporation	19-Jul-22						
L-139-2022/0	Roche, Katherine W.		MD Millipore Corporation	19-Jul-22						
L-007-2019/0	Hsu, Yite		bcam plc	27-Jul-22						
L-007-2019/0	Youle, Richard J.		bcam plc	27-Jul-22						

NIH Patent Licensing Activities

NINDS

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-181-2004/2	Hou, Jean	(b) (4)	Immuquest Ltd	8-Aug-22						(b) (3) (A), (b) (4), (b) (6)
L-181-2004/2	Major, Eugene O	(b) (6)	Immuquest Ltd	8-Aug-22						
L-181-2004/2	Messam, Conrad A		Immuquest Ltd	8-Aug-22						

NIH Patent Licensing Activities

NINDS

September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
L-193-2020/0	Bharti, Kapil	(b) (4)	Regeneron Pharmaceuticals, Inc.	1-Sep-22						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-193-2020/0 split between NEI; NINDS</i>										
L-181-2004/2	Hou, Jean		Immuquest Ltd	12-Sep-22						
L-181-2004/2	Major, Eugene O		Immuquest Ltd	12-Sep-22						
L-181-2004/2	Messam, Conrad A		Immuquest Ltd	12-Sep-22						
					\$42,860.74	\$0.00	\$42,860.74		\$14,420.24	\$28,440.50

NIH Patent Licensing Activities

NINR

April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-079-2017/0	Barr, Taura L.	(b) (4), (b) (6)	VuEssence, Inc.	11-May-22						(b) (3) (A), (b) (4), (b) (6)
L-079-2017/0	(b) (4)	(b) (6)	VuEssence, Inc.	11-May-22						

Note: L-079-2017/0 split between NIA; NINDS; NINR

NIH Patent Licensing Activities

NINR

June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities

NINR

September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NLM

April 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-010-2018/0	Lu, Zhiyong	(b) (4)	Ping An Technology (Shenzen) Company LTD	26-Apr-22						(b) (3) (A), (b) (4), (b) (6)
L-010-2018/0	Peng, Yifan	(b) (6)	Ping An Technology (Shenzen) Company LTD	26-Apr-22						

Note: L-010-2018/0 split between CC; NLM

NIH Patent Licensing Activities

NLM

May 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities

NLM

June 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities

NLM

July 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities

NLM

August 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities

NLM

September 2022

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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