PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8050695

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CODIAK BIOSCIENCES, INC.	06/15/2023

RECEIVING PARTY DATA

Name:	LONZA SALES AG
Street Address:	MÜNCHENSTEINERSTRASSE 38
City:	BASEL
State/Country:	SWITZERLAND
Postal Code:	4052

PROPERTY NUMBERS Total: 218

Property Type	Number
Application Number:	62378122
Application Number:	16327282
Application Number:	62434985
Application Number:	62542697
Application Number:	16470180
Application Number:	17706281
Application Number:	62533629
Application Number:	16632122
Application Number:	62550543
Application Number:	62656956
Application Number:	16112547
Application Number:	16231012
Application Number:	16722884
Application Number:	18050005
Application Number:	62561206
Application Number:	62668217
Application Number:	16137176
Application Number:	18172176
Application Number:	62588143
Application Number:	16190058

Property Type	Number
Application Number:	17014961
Application Number:	18045727
Application Number:	62587767
Application Number:	62634750
Application Number:	16765116
Application Number:	16194230
Application Number:	18057709
Application Number:	62611140
Application Number:	62723267
Application Number:	16236246
Application Number:	16921351
Application Number:	18049999
Application Number:	62629563
Application Number:	16969511
Application Number:	18052785
Application Number:	62647491
Application Number:	62680501
Application Number:	62688600
Application Number:	62756247
Application Number:	62822019
Application Number:	17040805
Application Number:	62688304
Application Number:	17254221
Application Number:	62750121
Application Number:	17288719
Application Number:	62800930
Application Number:	17428567
Application Number:	62801065
Application Number:	62801636
Application Number:	62851581
Application Number:	17428245
Application Number:	62822008
Application Number:	62835437
Application Number:	62840348
Application Number:	62891048
Application Number:	62901166
Application Number:	62946280
Application Number:	62984146

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Application Number:	17441524
Application Number:	18050027
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Application Number:	17593613
Application Number:	18050011
Application Number:	62822014
Application Number:	62835439
Application Number:	17441162
Application Number:	62835430
Application Number:	17293833
Application Number:	62835427
Application Number:	62840330
Application Number:	62851567
Application Number:	17594401
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Application Number:	62895398
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Application Number:	62936220
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Application Number:	62900371

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Application Number:	17793629
Application Number:	62962649
Application Number:	63035307

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Application Number:	17624524
Application Number:	62989491
Application Number:	63010603
Application Number:	63016213
Application Number:	63035367
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Application Number:	63055657
Application Number:	63059103
Application Number:	17906177
Application Number:	62989535
Application Number:	62704998
Application Number:	63154563
Application Number:	62989530
Application Number:	62704992
Application Number:	62989534
Application Number:	62704996
Application Number:	63001088
Application Number:	63003171
Application Number:	63006585
Application Number:	63017514
Application Number:	63142418
Application Number:	17906849
Application Number:	63035370
Application Number:	63161362
Application Number:	18000799
Application Number:	62992797
Application Number:	63023762
Application Number:	63035321
Application Number:	63035382
Application Number:	63066107
Application Number:	63028460
Application Number:	62704988
Application Number:	63181883
Application Number:	63035314
Application Number:	63035249
Application Number:	62704991
Application Number:	62704995
Application Number:	63066603

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Application Number:	63069423
Application Number:	63131870
Application Number:	63136051
Application Number:	63145762
Application Number:	63166772
Application Number:	18042068
Application Number:	63082358
Application Number:	18246312
Application Number:	63082434
Application Number:	63083034
Application Number:	18246301
Application Number:	63082453
Application Number:	63161331
Application Number:	18246304
Application Number:	63088312
Application Number:	63141829
Application Number:	63160596
Application Number:	63169753
Application Number:	63225852
Application Number:	63244626
Application Number:	18248036
Application Number:	63082433
Application Number:	63150453
Application Number:	63150523
Application Number:	63150497
Application Number:	63169751
Application Number:	63255857
Application Number:	63261918
Application Number:	63364875
Application Number:	63357568
Application Number:	63371709
Application Number:	63357573
Application Number:	63385371
Application Number:	63369650
Application Number:	63371707
Application Number:	63371711
Application Number:	63357552
Application Number:	63390266

Property Type	Number
Application Number:	63490750
Application Number:	63499032
PCT Number:	US2022016828
PCT Number:	US2022016870
PCT Number:	US2022016825
PCT Number:	US2022023120
PCT Number:	US2022078150
PCT Number:	US2022077424

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	0132-0000
NAME OF SUBMITTER:	JEFFREY K MILLS
SIGNATURE:	/Jeffrey K. Mills/
DATE SIGNED:	07/11/2023

Total Attachments: 55
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ASSIGNMENT OF U.S. AND NON-U.S. PATENT RIGHTS

THIS ASSIGNMENT OF U.S. AND NON-U.S. PATENT RIGHTS (this "Assignment"), made as of June 15, 2023, is entered into by and between Lonza Sales AG ("Assignee") and Codiak BioSciences, Inc. ("Assignor").

WHEREAS, Assignor and Assignee's affiliate, Lonza Houston, Inc. ("Buyer"), are party to that certain Asset Purchase Agreement, dated June 6, 2023 (the "Purchase Agreement"), pursuant to which Assignor agreed to sell, assign, transfer, convey, and deliver certain assets to Assignee, as designee of Buyer, including all of Assignor's right, title, and interest in and to the patents and patent applications identified on Schedule A hereto and the inventions captured in those patents and patent applications (the "Assigned Patents");

NOW THEREFORE, in consideration of the promises and the mutual covenants and agreements contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by both Assignor and Assignee, Assignor and Assignee hereby agree as follows:

1. Definitions. Capitalized terms used but not defined herein shall have the meanings accorded to them in the Purchase Agreement.

2. Assignment. Assignor hereby sells, conveys, assigns, delivers, and transfers to Assignee all of Assignor's right, title and interest in and to the Assigned Patents, including (i) any and all rights of priority thereto and renewals thereof; (ii) all patents and patent applications to which any of the Assigned Patents claim priority and all patents and patent applications claiming priority to any of the foregoing; and (iii) the right to sue and recover for past, present, and future infringements of the foregoing, and Assignee hereby accepts the foregoing sale, conveyance, assignment, delivery, and transfer from Assignor.

3. Authority. The officer that executes this Assignment on behalf of Assignor is authorized to bind and obligate each of the entities defined herein as part of Assignor and covenants that Assignor has not executed and will not execute an agreement in conflict with this Assignment. The officer that executes this Assignment on behalf of Assignee is authorized to bind and obligate the entity defined herein as Assignee.

4. Recordation. This Assignment has been executed and delivered by Assignor with the intention of recording it with the U.S. Patent and Trademark Office and also any non-U.S. patent and/or trademark offices.

5. Further Assurances. Both parties hereto covenant and agree to prepare, execute, acknowledge, and deliver to the other party hereto such other instruments, documents, and statements, and take such other action as may be reasonably requested in the discretion of the requesting party to carry out more effectively the purposes of this Assignment and to perfect the title to the Assigned Patents in Assignee, including, without limitation, the recordation by Assignee of this Assignment, or a suitable form hereof, in any patent and/or trademark office or other similar governmental authority, in each relevant jurisdiction throughout the world. Each party shall pay its own costs incurred to comply with such request.

6. Purchase Agreement. Nothing in this Assignment, express or implied, is intended to or shall be construed to supersede, modify, replace, amend, rescind, waive, expand, or limit in any way the rights of the parties under, or the terms of, the Purchase Agreement. To the extent that any provision of this Assignment conflicts or is inconsistent with the terms of the Purchase Agreement, the Purchase Agreement shall govern.

7. Governing Law. This Assignment shall be governed by, and construed in accordance with, the laws of the U.S. in respect of patent issues and in all other respects by the laws of the State of Delaware, without regard to its conflicts of laws rules.

8. Counterparts. This Assignment may be executed in one or more counterparts (including by facsimile or electronic .pdf submission), each of which shall be deemed to be an original and all of which shall be deemed to constitute the same agreement.

[*Signature page follows*]

IN WITNESS WHEREOF, Assignor and Assignee have executed this Assignment as of the date first written above.

ASSIGNOR

CODIAK BIOSCIENCES, INC.

By _____

Name: Paul Huygens
Title: Chief Restructuring Officer

IN WITNESS WHEREOF, undersigned parties have caused this Agreement to be executed as of the date first written above.

ASSIGNEE

LONZA SALES AG

By _____

Name:
Title:

By _____

Name:
Title:

[*Signature page to the ASSIGNMENT OF U.S. AND NON-U.S. PATENT RIGHTS*]

SCHEDULE A
ASSIGNED PATENTS

See attached.

I. Codiak Patents and Applications List

Codiak-Filed Applications

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0010US001	United States	Methods of suppressing delivery of exosomes to liver, lung, and spleen	62/378,122	08/22/2016					Expired
C0010US002	United States	Methods of suppressing delivery of exosomes to liver, lung, and spleen	16/327,282	08/21/2017	2021-0290556	09/23/2021			Pending
C0010EP001	EPC	Methods of suppressing delivery of exosomes to liver, lung, and spleen	17844210.9	08/21/2017	3500244	06/26/2019			Pending
C0010WO001	PCT	Methods of suppressing delivery of exosomes to liver, lung, and spleen	PCT/US2017/047794	08/21/2017	WO 2018/039119	03/01/2018			Expired
C0011US001	United States	Methods of measuring exosomes using intrinsic fluorescence.	62/434,985	12/15/2016					Expired
C0011US002	United States	Methods of measuring exosomes using intrinsic fluorescence.	62/542,697	08/08/2017					Expired
C0011US003	United States	Methods of measuring exosomes using intrinsic fluorescence.	16/470,180	12/14/2017	2020-0025685	01/23/2020			Abandoned
C0011US004	United States	Methods of measuring exosomes using intrinsic fluorescence.	17/706,281	03/28/2022	2022-0326158-A1	10/13/2022			Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0011WO001	PCT	Methods of measuring exosomes using intrinsic fluorescence.	PCT/US2017/066324	12/14/2017	WO 2018/112154	06/21/2018			Expired
C0013US001	United States	Nanovesicles produced from mesenchymal stromal cells for anti-inflammatory applications	62/533,629	07/17/2017					Expired
C0013US002	United States	Nanovesicles produced from mesenchymal stromal cells for anti-inflammatory applications	16/632,122	07/17/2018	2020-0163998	05/28/2020			Abandone
C0013EP001	EPC	Nanovesicles produced from mesenchymal stromal cells for anti-inflammatory applications	18834409.7	02/17/2020	3654995	05/27/2020			Pending
C0013WO001	PCT	Nanovesicles produced from mesenchymal stromal cells for anti-inflammatory applications	PCT/US2018/042409	07/17/2018	WO 2019/018349	01/24/2019			Expired
C0014US001	United States	Preparation of therapeutic exosomes using membrane proteins	62/550,543	08/25/2017					Expired
C0014US002	United States	Preparation of therapeutic exosomes using membrane proteins	62/656,956	04/12/2018					Expired
C0014US003	United States	Preparation of therapeutic exosomes using membrane proteins	16/112,547	08/24/2018	2019-0060483	02/28/2019	10,195,290	02/05/2019	Issued
C0014US004	United States	Preparation of therapeutic exosomes using membrane proteins	16/231,012	12/21/2018	2019-0117792	04/25/2019	10,561,740	02/18/2020	Issued

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0014US005	United States	Preparation of therapeutic exosomes using membrane proteins	16/722,884	12/20/2019	2020-0222556	07/16/2020			Allowed
C0014US006	United States	Preparation of therapeutic exosomes using membrane proteins	18/050,005	10/26/2022					Pending
C0014AU001	Australia	Preparation of therapeutic exosomes using membrane proteins	2018321927	08/24/2018	2018321927A	02/27/2020			Pending
C0014BR001	Brazil	Preparation of therapeutic exosomes using membrane proteins	BR112020003354-5	08/24/2018					Pending
C0014CA001	Canada	Preparation of therapeutic exosomes using membrane proteins	3,072,352	08/24/2018	3072352A	02/28/2019			Pending
C0014CL001	Chile	Preparation of therapeutic exosomes using membrane proteins	00428-2020	08/24/2018	00428-2020	11/27/2020			Abandoned
C0014CN001	China P.R.	Preparation of therapeutic exosomes using membrane proteins	201880055135.4	08/24/2018	CN111212632A	05/29/2020			Pending
C0014CO001	Colombia	Preparation of therapeutic exosomes using membrane proteins	NC2020/0001872	08/24/2018	NC2020/0001872	06/19/2020			Abandoned
C0014EA001	EURA	Preparation of therapeutic exosomes using membrane proteins	202090474	08/24/2018					Pending
C0014EP001	EPC	Preparation of therapeutic exosomes using membrane proteins	18849251.6	08/24/2018	EP3672573A1	07/01/2020			Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0014HK001	Hong Kong	Preparation of therapeutic exosomes using membrane proteins	62020022943.8	12/30/2020	40032715.	03/26/2021			Pending
C0014IL001	Israel	Preparation of therapeutic exosomes using membrane proteins	272786	08/24/2018	IL272786D0	04/30/2020			Pending
C0014IN001	India	Preparation of therapeutic exosomes using membrane proteins	202017012809	08/24/2018	202017012809	08/14/2020			Pending
C0014JP001	Japan	Preparation of therapeutic exosomes using membrane proteins	2020-510532	08/24/2018	2020-531018	11/05/2020			Pending
C0014KR001	Republic of Korea	Preparation of therapeutic exosomes using membrane proteins	10-2020-7008265	08/24/2018	KR20200071065A	06/18/2020			Pending
C0014MX001	Mexico	Preparation of therapeutic exosomes using membrane proteins	MX/A/2020/001790	08/24/2018					Pending
C0014NZ001	New Zealand	Preparation of therapeutic exosomes using membrane proteins	761419	08/24/2018					Pending
C0014WO001	PCT	Preparation of therapeutic exosomes using membrane proteins	PCT/US2018/048026	08/24/2018	WO2019/040920	02/28/2019			Expired
C0014PH001	Philippines	Preparation of therapeutic exosomes using membrane proteins	1-2020-500308	08/24/2018					Pending
C0014SG001	Singapore	Preparation of therapeutic exosomes using membrane proteins	11202001008R	08/24/2018	SG11202001008RA	03/30/2020			Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0014TH001	Thailand	Preparation of therapeutic exosomes using membrane proteins	2001001021	08/24/2018					Pending
C0014UA001	Ukraine	Preparation of therapeutic exosomes using membrane proteins	A202001382	08/24/2018					Pending
C0014ZA001	South Africa	Preparation of therapeutic exosomes using membrane proteins	2020/01103	08/24/2018					Abandone
C0015US001	United States	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	62/561,206	09/21/2017					Expired
C0015US002	United States	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	62/668,217	05/07/2018					Expired
C0015US003	United States	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	16/137,176	09/20/2018	2019-0085284	03/21/2019			Abandoned
C0015US004	United States	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	18/172,176	02/21/2023					Pending
C0015EP001	Europe	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	18858922.0	09/20/2018	3684381	07/29/2020	EP3684381	11/02/2022	Granted

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0015HK001	Hong Kong	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	18858922.0	01/14/2021	40034682	04/30/2021			Pending
C0015WO001	PCT	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	PCT/US2018/052074	09/20/2018	WO2019/060629	03/28/2019			Expired
C0015EP011	Europe	Production of extracellular vesicles in single-cell suspension using chemically defined cell culture media	22204880.3	11/01/2022					Pending
C0016US001	United States	Loading of extracellular vesicles through imparting of mechanical shear	62/588,143	11/17/2017					Expired
C0016US002	United States	Loading of extracellular vesicles through imparting of mechanical shear	16/190,058	11/13/2018	2019-0175506	06/13/2019			Abandoned
C0016US003	United States	Loading of extracellular vesicles through imparting of mechanical shear	17/014,961	09/08/2020	2021-0093568	04/01/2021			Abandoned
C0016US004	United States	Loading of extracellular vesicles through imparting of mechanical shear	18/045,727	10/11/2022					Pending
C0017US001	United States	Compositions of engineered exosomes and methods of loading luminal exosome payloads	62/587,767	11/17/2017					Expired

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0017US002	United States	Compositions of engineered exosomes and methods of loading luminal exosome payloads	62/634,750	02/23/2018					Expired
C0017US003	United States	Compositions of engineered exosomes and methods of loading luminal exosome payloads	16/194,230	11/16/2018	2019-0151456	05/23/2019			Abandone
C0017US004	United States	Compositions of engineered exosomes and methods of loading luminal exosome payloads	16/765,116	11/16/2018	2020-0347112	11/05/2020			Abandone
C0017US005	United States	Compositions of engineered exosomes and methods of loading luminal exosome payloads	18/057,709	11/21/2022					Pending
C0017AU004	Australia	Compositions of engineered exosomes and methods of loading luminal exosome payloads	2018367670	11/16/2018	AU2018367670A1	05/07/2020			Pending
C0017CA004	Canada	Compositions of engineered exosomes and methods of loading luminal exosome payloads	3,082,588	11/16/2018	CA3082588A1	05/23/2019			Pending
C0017CN002	China P.R.	Compositions of engineered exosomes and methods of loading luminal exosome payloads	201880072250.2	11/16/2018	CN111511384A	08/07/2020			Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0017EA004	Eurasia	Compositions of engineered exosomes and methods of loading luminal exosome payloads	202090832	11/16/2018					Pending
C0017HK001	Hong Kong	Compositions of engineered exosomes and methods of loading luminal exosome payloads	62021024490.6	01/29/2021	40034409 A	04/23/2021			Pending
C0017IL001	Israel	Compositions of engineered exosomes and methods of loading luminal exosome payloads	274634	11/16/2018	IL274634D0	06/30/2020			Pending
C0017JP004	Japan	Compositions of engineered exosomes and methods of loading luminal exosome payloads	2020-545049	11/16/2018	2021-503300	02/12/2021			Pending
C0017KR001	Republic of Korea	Compositions of engineered exosomes and methods of loading luminal exosome payloads	10-2020-7011470	11/16/2018	KR20200091390 A	07/30/2020			Pending
C0017MX001	Mexico	Compositions of engineered exosomes and methods of loading luminal exosome payloads	MX/a/2020/004883	11/16;/2018					Pending
C0017NZ001	New Zealand	Compositions of engineered exosomes and methods of loading luminal exosome payloads	763681	11/16/2018					Pending
C0017SG001	Singapore	Compositions of engineered exosomes and methods of loading luminal exosome payloads	11202003871S	11/16/2018	SG11202003871SA	05/28/2020			Abandoned

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0017WO001	PCT	Compositions of engineered exosomes and methods of loading luminal exosome payloads	PCT/US2018/061679	11/16/2018	WO2019/099942	05/23/2019			Expired
C0018US001	United States	Exosomes for immune-oncology and anti-inflammatory therapy	62/611,140	12/28/2017					Expired
C0018US002	United States	Exosomes for immune-oncology and anti-inflammatory therapy	62/723,267	08/27/2018					Expired
C0018US003	United States	Exosomes for immune-oncology and anti-inflammatory therapy	16/236,246	12/28/2018	2019-0202892	07/04/2019	10,723,782	07/28/2020	Issued
C0018US004	United States	Exosomes for immune-oncology and anti-inflammatory therapy	16/921,351	07/06/2020	2020-0407419	12/31/2020			Pending
C0018US005	United States	Exosomes for immune-oncology and anti-inflammatory therapy	18/049,999	10/26/2022					Pending
C0018AU001	Australia	Exosomes for immune-oncology and anti-inflammatory therapy	2018394238	12/28/2018	AU2018394238A1	06/18/2020			Pending
C0018BR001	Brazil	Exosomes for immune-oncology and anti-inflammatory therapy	BR112020013131-8	12/28/2018	BR112020013131-8	12/08/2020			Pending
C0018CA001	Canada	Exosomes for immune-oncology and anti-inflammatory therapy	3,085,471	12/28/2018	CA3085471A1	07/04/2019			Pending
C0018CL001	Chile	Exosomes for immune-oncology and anti-inflammatory therapy	01691-2020	12/28/2018	1691-2020	11/13/2020			Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0018CN001	China	Exosomes for immune-oncology and anti-inflammatory therapy	201880083335.0	12/28/2018	CN 111655271 A	09/11/2020			Pending
C0018CO001	Colombia	Exosomes for immune-oncology and anti-inflammatory therapy	NC2020/0009091	12/28/2018	NC2020/0009091	12/21/2020			Pending
C0018EA001	Eurasia	Exosomes for immune-oncology and anti-inflammatory therapy	202091134	12/28/2018					Pending
C0018EP001	EP	Exosomes for immune-oncology and anti-inflammatory therapy	18895264.2	12/28/2018	3731849	11/04/2020			Pending
C0018HK001	HK	Exosomes for immune-oncology and anti-inflammatory therapy	62021028710.3	04/01/2021	40039260	07/09/2021			Pending
C0018IL001	Israel	Exosomes for immune-oncology and anti-inflammatory therapy	275600	12/28/2018	IL275600D0	08/31/2020			Pending
C0018IN001	India	Exosomes for immune-oncology and anti-inflammatory therapy	202017032061	12/28/2018	202017032061 A	09/18/2020			Pending
C0018JP001	Japan	Exosomes for immune-oncology and anti-inflammatory therapy	2020-534610	12/28/2018	2021-508691	03/11/2021			Pending
C0018KR001	Republic of Korea	Exosomes for immune-oncology and anti-inflammatory therapy	10-2020-7016594	12/28/2018					Pending
C0018MX001	Mexico	Exosomes for immune-oncology and anti-inflammatory therapy	MX/a/2020/006672	12/28/2018					Pending

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C0018NZ001	New Zealand	Exosomes for immune-oncology and anti-inflammatory therapy	765040	12/28/2018					Pending
C0018PH001	Philippines	Exosomes for immune-oncology and anti-inflammatory therapy	1-2020-550805	12/28/2018					Pending
C0018SG001	Singapore	Exosomes for immune-oncology and anti-inflammatory therapy	11202005049Q	12/28/2018					Pending
C0018TH001	Thailand	Exosomes for immune-oncology and anti-inflammatory therapy	2001003284	12/28/2018					Pending
C0018UA001	Ukraine	Exosomes for immune-oncology and anti-inflammatory therapy	2020 03343	12/28/2018					Pending
C0018ZA001	South Africa	Exosomes for immune-oncology and anti-inflammatory therapy	2020/03484	12/28/2018					Pending
C0018WO001	PCT	Exosomes for immune-oncology and anti-inflammatory therapy	PCT/US2018/068062	12/28/2018	WO2019/133934	07/04/2019			Expired
C0019US001	United States	Methods and compositions for macrophage polarization	62/629,563	02/12/2018					Expired
C0019US002	United States	Methods and compositions for macrophage polarization	16/969,511	08/12/2020	2020-0407725	12/31/2020	11,512,315 B2	11/29/2022	Issued
C0019US003	United States	Methods and compositions for macrophage polarization	18/052,785	11/04/2022					Pending

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C0019AU001	Australia	Methods and compositions for macrophage polarization	2019218991	02/12/2019					Pending
C0019BR001	Brazil	Methods and compositions for macrophage polarization	BR112020016228-0	02/12/2019					Pending
C0019CA001	Canada	Methods and compositions for macrophage polarization	3,088,009	02/12/2019	CA3088009A1	08/15/2019			Pending
C0019CL001	Chile	Methods and compositions for macrophage polarization	02053-2020	02/12/2019					Pending
C0019CN001	China	Methods and compositions for macrophage polarization	201980011011.0	02/12/2019	CN 111918967 A	11/10/2020			Pending
C0019CO001	Colombia	Methods and compositions for macrophage polarization	NC2020/0009694	02/12/2019	NC2020/0009694	10/30/2020			Abandoned
C0019EA001	Eurasia	Methods and compositions for macrophage polarization	202091486	02/12/2019					Pending
C0019EP001	Europe	Methods and compositions for macrophage polarization	19710511.7	02/12/2019	3752615	12/23/2020			Pending
C0019HK001	Hong Kong	Methods and compositions for macrophage polarization	62021033213.1	02/12/2019	40043611	09/17/2021			Pending
C0019IL001	Israel	Methods and compositions for macrophage polarization	276409	02/12/2019					Pending

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C0019IN001	India	Methods and compositions for macrophage polarization	202017038529	02/12/2019	202017038529A	10/02/2020			Pending
C0019JP001	Japan	Methods and compositions for macrophage polarization	2020-542161	02/12/2019	2021-512608	05/20/2021			Pending
C0019KR001	South Korea	Methods and compositions for macrophage polarization	10-2020-7022341	02/12/2019	KR20200120624A	10/21/2020			Pending
C0019MX001	Mexico	Methods and compositions for macrophage polarization	MX/a/2020/008103	02/12/2019					Pending
C0019NZ001	New Zealand	Methods and compositions for macrophage polarization	765669	02/12/2019					Pending
C0019PH001	Philippines	Methods and compositions for macrophage polarization	1-2020-551195	02/12/2019					Pending
C0019SG001	Singapore	Methods and compositions for macrophage polarization	11202006021S	02/12/2019	SG11202006021SA	08/28/2020			Pending
C0019TH001	Thailand	Methods and compositions for macrophage polarization	2001004404	02/12/2019					Pending
C0019TW001	Taiwan	Methods and compositions for macrophage polarization	108104676	02/12/2019	202003846	01/16/2020			Pending
C0019UA001	Ukraine	Methods and compositions for macrophage polarization	2020 04401	02/12/2019					Pending

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C0019ZA001	South Africa	Methods and compositions for macrophage polarization	2020/04683	02/12/2019					Pending
C0019WO001	PCT	Methods and compositions for macrophage polarization	PCT/US2019/017731	02/12/2019	WO2019/157535	08/15/2019			Expired
C0021US001	United States	Exosome encapsulated STING-agonists	62/647,491	03/23/2018					Expired
C0021US002	United States	Exosome encapsulated STING-agonists	62/680,501	06/04/2018					Expired
C0021US003	United States	Exosome encapsulated STING-agonists	62/688,600	06/22/2018					Expired
C0021US004	United States	Exosome encapsulated STING-agonists	62/756,247	11/06/2018					Expired
C0021US005	United States	Exosome encapsulated STING-agonists	62/822,019	03/21/2019					Expired
C0021US006	United States	Exosome encapsulated STING-agonists	17/040,805	09/23/2020	2021-0322327	10/21/2021			Pending
C0021AR001	Argentina	Extracellular vesicle comprising STING-agonists	P190100742	03/22/2019	AR 115013 A1	11/18/2020			Pending
C0021AU001	Australia	Extracellular vesicle comprising STING-agonists	2019237508	03/22/2019	AU2019237508A1	10/01/2020			Pending
C0021BR001	Brazil	Extracellular vesicle comprising STING-agonists	BR112020019089-6	03/22/2019	BR112020019089-6	12/29/2020			Pending
C0021CA001	Canada	Extracellular vesicle comprising STING-agonists	3,093,849	03/22/2019	CA3093849A1	09/26/2019			Pending
C0021CL001	Chile	Extracellular vesicle comprising STING-agonists	02426-2020	03/22/2019					Abandoned

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C0021CN001	China	Extracellular vesicle comprising STING-agonists	201980020320.4	03/22/2019	CN 112118866A	12/22/2020			Pending
C0021CO001	Colombia	Extracellular vesicle comprising STING-agonists	NC2020/0013046	03/22/2019	NC2020/0013046	01/18/2021			Pending
C0021EA001	Eurasia	Extracellular vesicle comprising STING-agonists	202091961	03/22/2019					Pending
C0021EP001	Europe	Extracellular vesicle comprising STING-agonists	19719979.7	03/22/2019	3768310	01/27/2021			Pending
C0021HK001	Hong Kong	Extracellular vesicle comprising STING-agonists	62021033163.8	03/22/2019	40042867	09/03/2021			Pending
C0021IL001	Israel	Extracellular vesicle comprising STING-agonists	277344	03/22/2019					Pending
C0021IN001	India	Extracellular vesicle comprising STING-agonists	202017046059	03/22/2019	202017046059	10/01/2021			Pending
C0021JP001	Japan	Extracellular vesicle comprising STING-agonists	2020-550606	03/22/2019	2021-518386	08/02/2021			Pending
C0021KR001	Korea	Extracellular vesicle comprising STING-agonists	10-2020-7029390	03/22/2019					Pending
C0021MX001	Mexico	Extracellular vesicle comprising STING-agonists	MX/a/2020/009796	03/22/2019					Pending
C0021NZ001	New Zealand	Extracellular vesicle comprising STING-agonists	767721	03/22/2019					Pending
C0021PH001	Philippines	Extracellular vesicle comprising STING-agonists	12020551526	03/22/2019					Pending
C0021SG001	Singapore	Extracellular vesicle comprising STING-agonists	11202008636Y	03/22/2019	SG11202008636YA	10/29/2020			Pending
C0021TH001	Thailand	Extracellular vesicle comprising STING-agonists	2001005365	03/22/2019					Pending
C0021TW001	Taiwan	Extracellular vesicle comprising STING-agonists	108110166	03/22/2019	202003032	01/16/2020			Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0021UA001	Ukraine	Extracellular vesicle comprising STING-agonists	2020 05917	03/22/2019					Pending
C0021ZA001	South Africa	Extracellular vesicle comprising STING-agonists	2020/05866	03/22/2019					Pending
C0021WO001	PCT	Extracellular vesicle comprising STING-agonists	PCT/US2019/023727	03/22/2019	WO2019/183578	09/26/2019			Expired
C0023US001	United States	Methods of measuring extracellular vesicles and nanoparticles in complex matrices by light scattering	62/688,304	06/21/2018					Expired
C0023US002	US	Methods of measuring extracellular vesicles and nanoparticles in complex matrices by light scattering	17/254,221	12/18/2020	2021-0262931	08/26/2021			Pending
C0023WO001	PCT	Methods of measuring extracellular vesicles and nanoparticles in complex matrices by light scattering	PCT/US2019/038592	06/21/2019	WO2019/246591	12/26/2019			Expired
C0023EP001	Europe	Methods of measuring extracellular vesicles and nanoparticles in complex matrices by light scattering	19739484.4	12/15/2020	3811054	04/28/2021			Pending
C0023HK001	Hong Kong	Methods of measuring extracellular vesicles and nanoparticles in complex matrices by light scattering	620210405609.7	10/18/2021	40050976	12/31/2021			Pending
C0024US001	United States	Methods to improve potency of electroporation	62/750,121	10/24/2018					Expired

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C0024US002	United States	Methods to improve potency of electroporation	17/288,719	04/26/2021	2021-0395721	12/23/2021			Pending
C0024WO001[1]	PCT	Methods to improve potency of electroporation	PCT/US2019/057634	10/23/2019	WO2020/086701	04/30/2020			Expired
C0024EP001	Europe	Methods to improve potency of electroporation	19804932.2	10/23/2019	3870700	09/01/2021			Pending
C0030US001	United States	Treatment of cancer metastasis by targeting exosome proteins	62/800,930	02/04/2019					Expired
C0030US003	United States	Treatment of cancer metastasis by targeting exosome proteins	17/428,567	08/04/2021	2022-0144942	05/12/2022			Pending
C0030EP001	Europe	Treatment of cancer metastasis by targeting exosome proteins	20709858.3	02/04/2020	3920958	12/15/2021			Pending
C0030WO001	PCT	Treatment of cancer metastasis by targeting exosome proteins	PCT/US2020/016625	02/04/2020	WO2020/163366	08/13/2020			Expired
C0031US001	United States	Membrane protein scaffolds for exosome engineering	62/801,065	02/04/2019					Expired
C0031US002	United States	Membrane protein scaffolds for exosome engineering	62/801,636	02/05/2019					Expired

[1] The family is also owned by MaxCyte, Inc.

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C0031US003	United States	Membrane protein scaffolds for exosome engineering	62/851,581	05/22/2019					Expired
C0031US004	United States	Membrane protein scaffolds for exosome engineering	17/428,245	08/03/2021	2022-0249373-A1	08/11/2022			Pending
C0031AU003	Australia	Membrane protein scaffolds for exosome engineering	2020217716	02/04/2020					Pending
C0031CA003	Canada	Membrane protein scaffolds for exosome engineering	3,128,386	02/04/2020					Pending
C0031EA003	Eurasia	Membrane protein scaffolds for exosome engineering	202192147	02/04/2020					Pending
C0031EP003	Europe	Membrane protein scaffolds for exosome engineering	20714311.6	02/04/2020	3921432	12/15/2021			Pending
C0031IL003	Israel	Membrane protein scaffolds for exosome engineering	285195	02/04/2020					Pending
C0031JP003	Japan	Membrane protein scaffolds for exosome engineering	2021-545391	02/04/2020	2022-519275	03/22/2022			Pending
C0031KR003	Korea	Membrane protein scaffolds for exosome engineering	10-2021-7026834	02/04/2020					Pending
C0031MX003	Mexico	Membrane protein scaffolds for exosome engineering	MX/a/2021/009337	02/04/2020					Pending

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C0031NZ003	New Zealand	Membrane protein scaffolds for exosome engineering	778560	02/04/2020					Pending
C0031SG003	Singapore	Membrane protein scaffolds for exosome engineering	1120210838 9Q	02/04/2020					Pending
C0031WO001	PCT	Membrane protein scaffolds for exosome engineering	PCT/US2020 /016629	02/04/2020	WO2020/163370	08/13/2020			Expired
C0032US001	United States	Exosome for vaccine delivery	62/822,008	03/21/2019					Expired
C0032US002	United States	Extracellular Vesicles for vaccine delivery	62/835,437	04/17/2019					Expired
C0032US003	United States	Extracellular Vesicles for vaccine delivery	62/840,348	04/29/2019					Expired
C0032US004	United States	Extracellular Vesicles for vaccine delivery	62/891,048	08/23/2019					Expired
C0032US005	United States	Extracellular Vesicles for vaccine delivery	62/901,166	09/16/2019					Expired
C0032US006	United States	Extracellular Vesicles for vaccine delivery	62/946,280	12/10/2019					Expired
C0032US007	United States	Extracellular Vesicles for vaccine delivery	62/984,146	03/02/2020					Expired
C0032US008	United States	Extracellular Vesicles for vaccine delivery	17/441,524	09/21/2021	2022-0168415	06/02/2022			Pending
C0032US009	United States	Extracellular Vesicles for vaccine delivery	18/050,027	10/26/2022					Pending
C0032AR001	Argentina	Extracellular Vesicles for vaccine delivery	P200100821	03/25/2020	AR 118484 A1	10/06/2021			Pending
C0032AU001	Australia	Extracellular Vesicles for vaccine delivery	2020240135	03/20/2020					Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0032BR001	Brazil	Extracellular Vesicles for vaccine delivery	BR112021018694-8	03/20/2020	BR112021018694-8	11/30/2021			Pending
C0032CA001	Canada	Extracellular Vesicles for vaccine delivery	3,133,311	03/20/2020					Pending
C0032CL001	Chile	Extracellular Vesicles for vaccine delivery	02425-2021	03/20/2020					~~Pending~~ Abandon
C0032CN001	China	Extracellular Vesicles for vaccine delivery	202080037388.6	03/20/2020	CN114080232A	02/22/2022			Pending
C0032CO001	Colombia	Extracellular Vesicles for vaccine delivery	NC2021/0013895	03/20/2020	NC2021/0013895	01/17/2022			Pending
C0032EA001	Eurasia	Extracellular Vesicles for vaccine delivery	202192504	03/20/2020					Pending
C0032EP001	Europe	Extracellular Vesicles for vaccine delivery	20721330.7	03/20/2020	EP3941937	01/26/2022			Pending
C0032HK001	Hong Kong	Extracellular Vesicles for vaccine delivery	62022056736.1	07/13/2022	40067684	09/09/2022			Pending
C0032IL001	Israel	Extracellular Vesicles for vaccine delivery	286556	03/20/2020					Pending
C0032IN001	India	Extracellular Vesicles for vaccine delivery	202117047355	03/20/2020	202117047355A	02/11/2022			Pending
C0032JP001	Japan	Extracellular Vesicles for vaccine delivery	2021-556469	03/20/2020	2022-526127	05/23/2022			Pending
C0032KR001	Korea	Extracellular Vesicles for vaccine delivery	10-2021-7034252	03/20/2020					Pending
C0032MX001	Mexico	Extracellular Vesicles for vaccine delivery	MX/a/2021/011241	03/20/2020					Pending
C0032NZ001	New Zealand	Extracellular Vesicles for vaccine delivery	780241	03/20/2020					Pending
C0032PH001	Philippines	Extracellular Vesicles for vaccine delivery	1-2021-552223	03/20/2020					Pending

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C0032SG001	Singapore	Extracellular Vesicles for vaccine delivery	1120210970 2Q	03/20/2020					Pending
C0032TH001	Thailand	Extracellular Vesicles for vaccine delivery	2101005627	03/20/2020					Pending
C0032TW001	Taiwan	Extracellular Vesicles for vaccine delivery	109109629	03/23/2020	202100164	01/01/2021			Abandon
C0032ZA001	South Africa	Extracellular Vesicles for vaccine delivery	2021/06811	03/20/2020					Pending
C0032WO001	PCT	Extracellular Vesicles for vaccine delivery	PCT/US2020 /024023	03/20/2020	WO2020/191361	09/24/2020			Expired
C0035US001	United States	Process for preparing extracellular vesicles	62/822,013	03/21/2019					Expired
C0035US002	United States	Process for preparing extracellular vesicles	62/835,436	04/17/2019					Expired
C0035US003	United States	Process for preparing extracellular vesicles	62/903,524	09/20/2019					Expired
C0035US004	United States	Process for preparing extracellular vesicles	62/946,895	12/11/2019					Expired
C0035US005	United States	Process for preparing extracellular vesicles	62/984,141	03/02/2020					Expired
C0035US006	United States	Process for preparing extracellular vesicles	17/593,613	09/21/2021	2022-0387906-A1	12/08/2022			Pending
C0035US007	United States	Process for preparing extracellular vesicles	18/050,011	10/26/2022					Pending
C0035EP001	Europe	Process for preparing extracellular vesicles	20720184.9	03/20/2020	EP3941607	01/26/2022			Pending

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C0035HK001	Hong Kong	Process for preparing extracellular vesicles	6202205673 7.9	07/13/2022	62022056737.9	09/09/2022			Pending
C0035WO001	PCT	Process for preparing extracellular vesicles	PCT/US2020 /024038	03/20/2020	WO2020/191369	09/24/2020			Expired
C0037AU001	Australia	Extracellular vesicle conjugates and uses thereof	2020241903	03/20/2020					Pending
C0037CA001	Canada	Extracellular vesicle conjugates and uses thereof	3,133,314	03/20/2020					Pending
C0037CN001	China	Extracellular vesicle conjugates and uses thereof	2020800310 44.4	03/20/2020	CN 11374925 A	12/03/2021			Pending
C0037EA001	Eurasia	Extracellular vesicle conjugates and uses thereof	202192490	03/20/2020					Pending
C0037EP001	Europe	Extracellular vesicle conjugates and uses thereof	20720186.4	03/20/2020	EP3941528	01/26/2022			Pending
C0037HK001	Hong Kong	Extracellular vesicle conjugates and uses thereof	6202205673 4.6	07/13/2022	40067682	09/09/2022			Pending
C0037IL001	Israel	Extracellular vesicle conjugates and uses thereof	286562	03/20/2020					Pending
C0037JP001	Japan	Extracellular vesicle conjugates and uses thereof	2021-556470	03/20/2020	2022-525924	05/20/2022			Pending

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C0037KR001	Korea	Extracellular vesicle conjugates and uses thereof	10-2021-7033075	03/20/2020					Pending
C0037MX001	Mexico	Extracellular vesicle conjugates and uses thereof	MX/a/2021/011242	03/20/2020					Pending
C0037NZ001	New Zealand	Extracellular vesicle conjugates and uses thereof	780270	03/20/2020					Pending
C0037SG001	Singapore	Extracellular vesicle conjugates and uses thereof	11202109587T	03/20/2020					Pending
C0037US001	United States	Extracellular vesicle conjugates and uses thereof	62/822,014	03/21/2019					Expired
C0037US002	United States	Extracellular vesicle conjugates and uses thereof	62/835,439	04/17/2019					Expired
C0037US004	United States	Extracellular vesicle conjugates and uses thereof	17/441,162	09/20/2021					Pending
C0037WO001	PCT	Extracellular vesicle conjugates and uses thereof	PCT/US2020/024057	03/20/2020	WO2020/191377	09/24/2020			Expired
C0041US001	United States	Engineered extracellular vesicles and uses thereof	62/835,430	04/17/2019					Expired
C0041US002	United States	Engineered extracellular vesicles and uses thereof	17/293,833	05/13/2021	2022-0017907	01/20/2022			Pending
C0041AR001	Argentina	Engineered extracellular vesicles and uses thereof	P190101375	05/23/2019	AR 115159 A1	12/02/2020			Pending

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C0041AU001	Australia	Engineered extracellular vesicles and uses thereof	2019378591	05/22/2019					Pending
C0041BR001	Brazil	Engineered extracellular vesicles and uses thereof	BR112021009231-5	05/22/2019	BR112021009231 05	08/10/2021			Pending
C0041CA001	Canada	Engineered extracellular vesicles and uses thereof	3119720	05/22/2019					Pending
C0041CL001	Chile	Engineered extracellular vesicles and uses thereof	01278-2021	05/22/2019					Abandone
C0041CN001	China	Engineered extracellular vesicles and uses thereof	201980083366.0	05/22/2019	CN113286603A	08/20/2021			Pending
C0041EA001	Eurasia	Engineered extracellular vesicles and uses thereof	202191334	05/22/2019					Pending
C0041EP001	EPC	Engineered extracellular vesicles and uses thereof	19731027.9	05/22/2019	3672614[2]	07/01/2020	3672614	10/06/2021	Granted
C0041EP002	EPC	Engineered extracellular vesicles and uses thereof	21200884.1	05/22/20219	4059510	09/21/2022			Pending
C0041HK001	Hong Kong	Engineered extracellular vesicles and uses thereof	62020022944.6	12/30/2020	40032716	03/26/2021	HK40032716	04/22/2022	Granted
C0041IL001	Israel	Engineered extracellular vesicles and uses thereof	283167	05/22/2019					Pending
C0041IN001	India	Engineered extracellular vesicles and uses thereof	202117026566	05/22/2019	202117026566	11/19/2021			Pending
C0041JP001	Japan	Engineered extracellular vesicles and uses thereof	2021-526563	05/22/2019	2022-513049	02/07/2022			Pending
C0041KR001	Korea	Engineered extracellular vesicles and uses thereof	10-2021-7018358	05/22/2019					Pending
C0041MX001	Mexico	Engineered extracellular vesicles and uses thereof	MX/a/2021/005636	05/22/2019					Pending

[2] Validated in AL, AT, BA, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, KH, LT, LU, LV, MA, MC, MD, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TN, TR

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0041NZ001	New Zealand	Engineered extracellular vesicles and uses thereof	776767	05/22/2019					Pending
C0041PH001	Philippines	Engineered extracellular vesicles and uses thereof	1-2021-551088	05/22/2019					Abandone
C0041SG001	Singapore	Engineered extracellular vesicles and uses thereof	1120210495 6Q	05/22/2019					Pending
C0041TH001	Thailand	Engineered extracellular vesicles and uses thereof	2101002768	05/22/2019					Abandone
C0041TW001	Taiwan	Engineered extracellular vesicles and uses thereof	108117910	05/23/2019	202038993	11/01/2020			Pending
C0041WO001	PCT	Engineered extracellular vesicles and uses thereof	PCT/US2019 /033629	05/22/2019	WO2020/101740	05/22/2020			Expired
C0043US001	United States	Engineered extracellular vesicles and uses thereof	62/835,427	04/17/2019					Expired
C0043US002	United States	Method for treating tuberculosis	62/840,330	04/29/2019					Expired
C0043US003	United States	Engineered extracellular vesicles and uses thereof	62/851,567	05/22/2019					Expired
C0043US004	United States	Methods for Treating Tuberculosis	17/594,401	10/14/2021	2022-0218811-A1	07/14/2022			Pending
C0043WO001	PCT	Methods of treating tuberculosis	PCT/US2020 /028778	04/17/2020	WO2020/214961	10/22/2020			Expired
C0044US001	United States	Multifunctional extracellular vesicles and uses thereof	62/851,547	05/22/2019					Expired
C0044US002	United States	Multifunctional extracellular vesicles and uses thereof	16/881,961	05/22/2020					Abandoned

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C0045US002	United States	Extracellular vesicles targeting dendritic cells and uses thereof	62/891,092	08/23/2019					Expired
C0045US003	United States	Extracellular vesicles targeting dendritic cells and uses thereof	62/903,495	09/20/2019					Expired
C0045US004	United States	Extracellular vesicles targeting dendritic cells and uses thereof	62/962,618	01/17/2020					Expired
C0045US005	United States	Extracellular vesicles targeting dendritic cells and uses thereof	63/035,302	06/05/2020					Expired
C0046US001	United States	Method of inducing hematopoiesis	62/870,483	07/03/2019					Expired
C0046WO001	PCT	Method of inducing hematopoiesis	PCT/US2020/040746	07/02/2020	WO2021/003425	01/07/2021			Expired
C0057US001	United States	Extracellular vesicle linked to molecules and uses thereof	62/886,941	08/14/2019					Expired
C0057US002	United States	Extracellular vesicle linked to molecules and uses thereof	62/895,398	09/03/2019					Expired
C0057US003	United States	Extracellular vesicle linked to molecules and uses thereof	17/634,897	02/11/2022	2022-0354963-A1	11/10/2022			Pending
C0057AU001	Australia	Extracellular vesicle linked to molecules and uses thereof	2020327360	08/14/2020					Pending
C0057BR001	Brazil	Extracellular vesicle linked to molecules and uses thereof	BR112022002599-8	08/14/2020	BR112022002599-8	07/19/2022			Pending
C0057CA001	Canada	Extracellular vesicle linked to molecules and uses thereof	3,145,924	08/14/2020					Pending

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C0057CN001	China	Extracellular vesicle linked to molecules and uses thereof	202080068936.1	08/14/2020	CN 114728078 A	07/08/2022			Pending
C0057EA001	Eurasia	Extracellular vesicle linked to molecules and uses thereof	202290481	08/14/2020					Pending
C0057EP001	Europe	Extracellular vesicle linked to molecules and uses thereof	20762006.3	08/14/2020	4013457	6/22/2022			Pending
C0057HK001	Hong Kong	Extracellular vesicle linked to molecules and uses thereof	62022065920.0	8/14/2020	40078430	3/31/2023			Pending
C0057IL001	Israel	Extracellular vesicle linked to molecules and uses thereof	290494	08/14/2020					Pending
C0057IN001	India	Extracellular vesicle linked to molecules and uses thereof	202217007370	08/14/2020					Pending
C0057JP001	Japan	Extracellular vesicle linked to molecules and uses thereof	2022-508813	08/14/2020	2022-550248	12/01/2022			Pending
C0057KR001	Korea	Extracellular vesicle linked to molecules and uses thereof	10-2022-7008099	08/14/2020					Pending
C0057MX001	Mexico	Extracellular vesicle linked to molecules and uses thereof	MX/a/2022/001770	08/14/2020					Pending
C0057NZ001	New Zealand	Extracellular vesicle linked to molecules and uses thereof	784386	08/14/2020	784386	01/28/2022			Pending
C0057SG001	Singapore	Extracellular vesicle linked to molecules and uses thereof	11202200347Y	08/14/2020					Pending
C0057ZA001	South Africa	Extracellular vesicle linked to molecules and uses thereof	2022/00951	08/14/2019					Pending
C0057WO001	PCT	Extracellular vesicle linked to molecules and uses thereof	PCT/US2020/046560	08/14/2020	WO2021/030777	02/18/2021			Expired

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C0058US001	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	62/886,930	08/14/2019					Expired
C0058US002	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	62/900,136	09/13/2019					Expired
C0058US003	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	62/936,220	11/15/2019					Expired
C0058US004	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	62/944,204	12/05/2019					Expired
C0058US005	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	62/989,540	03/13/2020					Expired
C0058US006	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	62/023,065	05/11/2020					Expired
C0058US007	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	63/035,357	06/05/2020					Expired
C0058US008	United States	Extracellular vesicle-ASO constructs targeting CEBP/beta	17/635,284	08/14/2020	2023-0002764 A1	01/05/2023			Pending
C0058AU001	Australia	Extracellular vesicle-ASO constructs targeting CEBP/beta	2020330133	08/14/2020					Pending
C0058BR001	Brazil	Extracellular vesicle-ASO constructs targeting CEBP/beta	BR112022002690-0	08/14/2020					Pending
C0058CA001	Canada	Extracellular vesicle-ASO constructs targeting CEBP/beta	3,147,369	08/14/2020					Pending
C0058CN001	China	Extracellular vesicle-ASO constructs targeting CEBP/beta	202080072036.4	08/14/2020	CN 114729366 A	07/08/2022			Pending
C0058EA001	Eurasia	Extracellular vesicle-ASO constructs targeting CEBP/beta	202290482	08/14/2020					Pending

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C0058EP001	Europe	Extracellular vesicle-ASO constructs targeting CEBP/beta	20765127.4	08/14/2020	EP4013878	06/22/2022			Pending
C0058HK001	Hong Kong	Extracellular vesicle-ASO constructs targeting CEBP/beta	6202206578 9.9	12/17/2022	40076699	01/17/2023			Pending
C0058IL001	Israel	Extracellular vesicle-ASO constructs targeting CEBP/beta	290497	08/14/2020					Pending
C0058IN001	India	Extracellular vesicle-ASO constructs targeting CEBP/beta	2022170137 17	08/14/2020	202217013717 A	07/01/2022			Pending
C0058JP001	Japan	Extracellular vesicle-ASO constructs targeting CEBP/beta	2022-508815	08/14/2020	2022-544288	10/17/2022			Pending
C0058KR001	Korea	Extracellular vesicle-ASO constructs targeting CEBP/beta	10-2022-7008102	08/14/2020					Pending
C0058MX001	Mexico	Extracellular vesicle-ASO constructs targeting CEBP/beta	MX/a/2022/0 01769	08/14/2020					Pending
C0058NZ001	New Zealand	Extracellular vesicle-ASO constructs targeting CEBP/beta	785398	08/14/2020					Pending
C0058SG001	Singapore	Extracellular vesicle-ASO constructs targeting CEBP/beta	1120220113 8Q	08/14/2020					Pending
C0058ZA001	South Africa	Extracellular vesicle-ASO constructs targeting CEBP/beta	2022/01845	08/14/2020					Abandoned
C0058WO001	PCT	Extracellular vesicle-ASO constructs targeting CEBP/beta	PCT/US2020 /046563	08/14/2020	WO2021/030780	02/18/2021			Expired
C0060US001	United States	Extracellular vesicles with STAT3/NRas antisense oligonucleotides	62/886,901	08/14/2019					Expired
C0060US002	United States	Extracellular vesicles with STAT3/NRas antisense oligonucleotides	62/900,371	09/13/2019					Expired

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C0060US003	United States	Extracellular vesicles with STAT3 antisense oligonucleotides	17/635,315	02/14/2022					Pending
C0060CA001	Canada	Extracellular vesicles with STAT3 antisense oligonucleotides	3,147,366	08/14/2020					Pending
C0060CN001	China	Extracellular vesicles with STAT3 antisense oligonucleotides	202080071979.5	08/14/2020	CN 114729327 A	07/08/2022			Pending
C0060EP001	Europe	Extracellular vesicles with STAT3 antisense oligonucleotides	20765124.1	08/14/2020	EP4013875	06/22/2022			Pending
C0060JP001	Japan	Extracellular vesicles with STAT3 antisense oligonucleotides	2022-508816	08/14/2020	2022-544934	10/24/2022			Pending
C0060WO001	PCT	Extracellular vesicles with STAT3 antisense oligonucleotides	PCT/US2020/046549	08/14/2020	WO2021/030768	02/18/2021			Expired
C0061US001	United States	Extracellular vesicles with antisense oligonucleotides	62/886,904	08/14/2019					Expired
C0061US002	United States	Extracellular vesicles with antisense oligonucleotides	62/900,376	09/13/2019					Expired
C0061WO001	PCT	Extracellular vesicles with antisense oligonucleotides	PCT/US2020/046550	08/14/2020	WO2021/030769	02/18/2021			Expired
C0062US001	United States	Extracellular vesicles with antisense oligonucleotides targeting KRas	62/886,885	08/14/2019					Expired
C0062US002	United States	Extracellular vesicles with antisense oligonucleotides targeting KRas	17/635,298	02/14/2022	2023-0018254-A1	01/19/2023			Pending
C0062CA001	Canada	Extracellular vesicles with antisense oligonucleotides targeting KRas	3,147,701	08/14/2020					Pending
C0062CN001	China	Extracellular vesicles with antisense oligonucleotides targeting KRas	202080070752.9	08/14/2020	CN114641570 A	06/17/2022			Pending

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C0062EP001	Europe	Extracellular vesicles with antisense oligonucleotides targeting KRas	20762007.1	08/14/2020	EP4013872	06/22/20222			Pending
C0062JP001	Japan	Extracellular vesicles with antisense oligonucleotides targeting KRas	2022-508819	08/14/2020	2022-544290	10/17/2022			Pending
C0062WO001	PCT	Extracellular vesicles with antisense oligonucleotides targeting KRas	PCT/US2020/046564	08/14/2020	WO2021/030781	02/18/2021			Expired
C0063US001	United States	Extracellular vesicle-ASO constructs targeting STAT6	62/886,944	08/14/2019					Expired
C0063US002	United States	Extracellular vesicle-ASO constructs targeting STAT6	62/900,138	09/13/2019					Expired
C0063US003	United States	Extracellular vesicle-ASO constructs targeting STAT6	62/903,518	09/20/2019					Expired
C0063US004	United States	Extracellular vesicle-ASO constructs targeting STAT6	62/936,216	11/15/2019					Expired
C0063US005	United States	Extracellular vesicle-ASO constructs targeting STAT6	62/989,477	03/13/2020					Expired
C0063US006	United States	Extracellular vesicle-ASO constructs targeting STAT6	63/035,392	06/05/2020					Expired
C0063US007	United States	Extracellular vesicle-ASO constructs targeting STAT6	17/635,322	08/14/2020					Pending
C0063US008	United States	Extracellular vesicle-ASO constructs targeting STAT6	18/050,017	10/26/2022					Pending
C0063AU001	Australia	Extracellular vesicle-ASO constructs targeting STAT6	2020328611	08/14/2020					Pending
C0063BR001	Brazil	Extracellular vesicle-ASO constructs targeting STAT6	BR112022002691-9	08/14/2020					Pending
C0063CA001	Canada	Extracellular vesicle-ASO constructs targeting STAT6	3,147,680	08/14/2020					Pending
C0063CN001	China	Extracellular vesicle-ASO constructs targeting STAT6	202080068792.X	08/14/2020	CN 114729356 A	07/08/2022			Pending

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C0063EA001	Eurasia	Extracellular vesicle-ASO constructs targeting STAT6	202290518	08/14/2020					Pending
C0063EP001	Europe	Extracellular vesicle-ASO constructs targeting STAT6	20765126.6	08/14/2020	EP4013877	06/22/2022			Pending
C0063HK001	Hong Kong	Extracellular vesicle-ASO constructs targeting STAT6	6202206579 0.7	12/17/2022	40076700	02/17/2023			Pending
C0063IL001	Israel	Extracellular vesicle-ASO constructs targeting STAT6	290499	08/14/2020					Pending
C0063IN001	India	Extracellular vesicle-ASO constructs targeting STAT6	2022170133 81	08/14/2020	202217013381 A	07/01/2022			Pending
C0063JP001	Japan	Extracellular vesicle-ASO constructs targeting STAT6	2022-508818	08/14/2020	2022-544289	10/17/2022			Pending
C0063KR001	Korea	Extracellular vesicle-ASO constructs targeting STAT6	10-2022-7008103	08/14/2020					Pending
C0063MX001	Mexico	Extracellular vesicle-ASO constructs targeting STAT6	MX/a/2022/0 01767	08/14/2020					Pending
C0063NZ001	New Zealand	Extracellular vesicle-ASO constructs targeting STAT6	785083	08/14/2020					Pending
C0063SG001	Singapore	Extracellular vesicle-ASO constructs targeting STAT6	1120220125 9V	08/14/2020					Pending
C0063ZA001	South Africa	Extracellular vesicle-ASO constructs targeting STAT6	2022/01839	08/14/2020					Pending
C0063WO001	PCT	Extracellular vesicle-ASO constructs targeting STAT6	PCT/US2020 /046559	08/14/2020	WO2021/030776	02/18/2021			Expired
C0066EP002	Europe	Extracellular vesicles targeting dendritic cells and uses thereof	19765396.7	08/23/2019	3841112	06/30/2021			Pending
C0066US001	United States	Extracellular vesicles targeting dendritic cells and uses thereof	62/870,574	07/03/2019					Expired

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C0066US002	United States	Extracellular vesicles targeting dendritic cells and uses thereof	17/271,176	02/24/2021					Pending
C0066WO001	PCT	Extracellular vesicles targeting dendritic cells and uses thereof	PCT/US2019/047937	08/23/2019	WO2020/041720	02/27/2020			Expired
C0066TW001	Taiwan	Extracellular vesicles targeting dendritic cells and uses thereof	108130488	08/26/2019	202024120	07/01/2020			Pending
C0068EP001	Europe	Methods of producing extracellular vesicles	20792799.7	09/25/2020	EP4034276	08/03/2022			Pending
C0068IN001	India	Methods of producing extracellular vesicles	202217021530	09/25/2020	202217021530 A	07/22/2022			Pending
C0068US001	United States	Methods of producing extracellular vesicles	62/906,023	09/25/2019					Expired
C0068US002	United States	Methods of producing extracellular vesicles	63/059,754	07/31/2020					Expired
C0068US003	United States	Methods of producing extracellular vesicles	63/066,654	08/17/2020					Expired
C0068US004	United States	Methods of producing extracellular vesicles	17/754,174	09/25/2020					Pending
C0068WO001	PCT	Methods of producing extracellular vesicles	PCT/US2020/052901	09/25/2020	WO2021/062290	04/01/2021			Expired
C0069AU001	Australia	Extracellular vesicle compositions	2020355240	09/25/2020					Pending
C0069BR001	Brazil	Extracellular vesicle compositions	BR112022005614-1	09/25/2020	BR112022005614 01 A2	07/12/2022			Pending
C0069CA001	Canada	Extracellular vesicle compositions	3,152,478	09/25/2020					Pending
C0069CN001	China	Extracellular vesicle compositions	202080078588.6	09/25/2020	CN 114727947 A	07/08/2022			Pending

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C0069EA001	Eurasia	Extracellular vesicle compositions	202290970	09/25/2020					Pending
C0069EP001	Europe	Extracellular vesicle compositions	20790126.5	09/25/2020	EP4034081	08/03/2022			Pending
C0069HK001	Hong Kong	Extracellular vesicle compositions	62023067648.3	01/31/2023					Pending
C0069IL001	Israel	Extracellular vesicle compositions	291690	09/25/2020					Pending
C0069IN001	India	Extracellular vesicle compositions	202217023076	09/25/2020	202217023076	07/29/2022			Pending
C0069JP001	Japan	Extracellular vesicle compositions	2022-518957	09/25/2020	2022-549328	11/24/2022			Pending
C0069KR001	Korea	Extracellular vesicle compositions	10-2022-7013488	09/25/2020					Pending
C0069MX001	Mexico	Extracellular vesicle compositions	MX/a/2022/003570	09/25/2020					Pending
C0069NZ001	New Zealand	Extracellular vesicle compositions	786737	09/25/2020					Pending
C0069SG001	Singapore	Extracellular vesicle compositions	11202203037S	09/25/2020					Pending
C0069ZA001	South Africa	Extracellular vesicle compositions	2022/03637	09/25/2020					Pending
C0069US001	United States	Extracellular vesicle compositions	62/906,018	09/25/2019					Expired
C0069US002	United States	Extracellular vesicle compositions	62/906,485	09/26/2019					Expired
C0069US003	United States	Extracellular vesicle compositions	17/763,996	09/25/2020					Pending
C0069WO001	PCT	Extracellular vesicle compositions	PCT/US2020/52935	09/25/2020	WO2021/062317	04/01/2021			Expired

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C0072AU001	Australia	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	2020351729	09/25/2020					Pending
C0072CA001	Canada	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	3,152,488	09/24/2020					Pending
C0072EP001	Europe	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	20799859.2	09/24/2020	EP4034150	08/03/2022			Pending
C0072JP001	Japan	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	2022-518958	09/24/2020	2022-551420	12/09/2022			Pending
C0072KR001	Korea	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	10-2022-7013485	09/24/2020					Pending
C0072US001	United States	Combination therapy using extracellular vesicles	62/906,016	09/25/2019					Expired
C0072US002	United States	Combination therapy using extracellular vesicles	63/066,605	08/17/2020					Expired
C0072US003	United States	Combination therapy using extracellular vesicles	63/070,149	08/25/2020					Expired
C0072US004	United States	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	17/763,973	09/24/2020	US-2022-0395465-A1	12/15/2022			Pending
C0072WO001	PCT	Sting agonist comprising exosomes combined with IL-12 displaying exosomes for treating a tumour	PCT/US2020/052587	09/24/2020	WO/2021/062060	04/01/2021			Expired
C0073EP001	Europe	Sting agonist comprising exosomes for treating	20789765.3	09/24/2020	EP4034247	08/03/2022			Pending

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		neuroimmunological disorders							
C0073US001	United States	Method of treating neuroimmunological disorders	62/906,002	09/25/2019					Expired
C0073US002	United States	Method of treating neuroimmunological disorders	62/989,528	03/13/2020					Expired
C0073US003	United States	Method of treating neuroimmunological disorders	62/704,986	06/05/2020					Expired
C0073US004	United States	Sting agonist comprising exosomes for treating neuroimmunological disorders	17/754,177	09/24/2020					Pending
C0073WO001	PCT	Sting agonist comprising exosomes for treating neuroimmunological disorders	PCT/US2020/052584	09/24/2020	WO2021/062058	04/01/2021			Expired
C0076US001	United States	Exogenous loading of exosomes via lyophilization	62/905,999	09/25/2019					Expired
C0076WO001	PCT	Exogenous loading of exosomes via lyophilization	PCT/US2020/052583	09/24/2020	WO2021/062057	04/01/2021			Expired
C0079US001	United States	High-throughput chromatography screening for extracellular vesicles	62/931,089	11/05/2019					Expired
C0079US002	United States	High-throughput chromatography screening for extracellular vesicles	17/774,774	05/05/2022	2022-0390437	12/08/2022			Pending
C0079WO001	PCT	High-throughput chromatography screening for extracellular vesicles	PCT/US2020/059135	11/05/2020	WO2021/092193	05/14/2021			Expired
C0080EP001	Europe	Cholesterol assays for extracellular vesicles	21708407.8	01/15/2021	EP4090974	11/23/2022			Pending
C0080US001	United States	Cholesterol assays for extracellular vesicles	62/962,691	01/17/2020					Expired

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C0080US002	United States	Cholesterol assays for extracellular vesicles	63/047,159	07/01/2020					Expired
C0080US003	United States	Cholesterol assays for extracellular vesicles	17/793,629	01/15/2021					Pending
C0080WO001	PCT	Cholesterol assays for extracellular vesicles	PCT/US2021 /013722	01/15/2021	WO2021/146616	07/22/2021			Expired
C0085EP001	Europe	Extracellular vesicles targeting t cells and uses thereof	20751829.1	07/02/2020	EP3994158	05/11/2022			Pending
C0085US001	United States	Extracellular vesicles targeting t cells and uses thereof	62/962,649	01/17/2020					Expired
C0085US002	United States	Extracellular vesicles targeting t cells and uses thereof	63/035,307	06/05/2020					Expired
C0085US003	United States	Extracellular vesicles targeting t cells and uses thereof	17/624,524	07/02/2020	2022-0251200-A1	8/11/2022			Pending
C0085WO001	PCT	Extracellular vesicles targeting t cells and uses thereof	PCT/US2020 /040773	07/02/2020	WO2021/003445	01/07/2021			Expired
C0091US001	United States	Exovacc for neurological disorders	62/989,491	03/13/2020					Expired
C0091US002	United States	Extracellular vesicles for treating neurological disorders	63/010,603	03/15/2020					Expired
C0091US003	United States	Extracellular vesicles for treating neurological disorders	63/016,213	04/27/2020					Expired
C0091US004	United States	Extracellular vesicles for treating neurological disorders	63/035,367	06/05/2020					Expired
C0091US005	United States	Extracellular vesicles for treating neurological disorders	63/050,651	06/10/2020					Expired

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C0091US006	United States	Extracellular vesicles for treating neurological disorders	63/055,657	07/23/2020					Expired
C0091US007	United States	Extracellular vesicles for treating neurological disorders	63/059,103	07/30/2020					Expired
C0091US008	United States	Extracellular vesicles for treating neurological disorders	17/906,177	03/15/2021					Pending
C0091WO001	PCT	Extracellular vesicles for treating neurological disorders	PCT/US2021/022420	03/15/2021	WO2021/184017	09/16/2021			Expired
C0091EP001	Europe	Extracellular vesicles for treating neurological disorders	21722594.5	10/13/2022	4117717	01/18/2023			Pending
C0093US001	United States	Methods of targeting extracellular vesicles to the central nervous system	62/989,535	03/13/2020					Expired
C0093US002	United States	Methods of targeting extracellular vesicles to the central nervous system	62/704,998	06/05/2020					Expired
C0093US003	United States	Methods of targeting extracellular vesicles to the central nervous system	63/154,563	02/26/2021					Expired
C0094US001	United States	Methods of treating neuroinflammation	62/989,530	03/13/2020					Expired
C0094US002	United States	Methods of treating neuroinflammation	62/704,992	06/05/2020					Expired
C0094WO001	PCT	Methods of treating neuroinflammation	PCT/US2021/022428	03/15/2021	WO2021/184020	09/16/2021			Expired
C0095US001	United States	Extracellular vesicle targeting PMP22	62/989,534	03/13/2020					Expired
C0095US002	United States	Extracellular vesicle targeting PMP22	62/704,996	06/05/2020					Expired

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0095WO001	PCT	Extracellular vesicle targeting PMP22	PCT/US2021/022433	03/15/2021	WO2021/184021	09/16/2021			Expired
C0097AU001	Australia	Extracellular vesicles for Coronavirus Therapy	2021236763	10/20/2022					Pending
C0097CA001	Canada	Extracellular vesicles for Coronavirus Therapy	3,171,623	09/13/2022					Pending
C0097EP001	Europe	Extracellular vesicles for Coronavirus Therapy	21717740.1	10/20/2022	EP4121450	01/25/2023			Pending
C0097JP001	Japan	Extracellular vesicles for Coronavirus Therapy	2022-556038	3/22/2021					Pending
C0097US001	United States	Extracellular vesicles for Coronavirus Therapy	63/001,008	03/27/2020					Expired
C0097US002	United States	Extracellular vesicles for Coronavirus Therapy	63/003,171	03/31/2020					Expired
C0097US003	United States	Extracellular vesicles for Coronavirus Therapy	63/006,585	04/07/2020					Expired
C0097US004	United States	Extracellular vesicles for Coronavirus Therapy	63/017,514	04/29/2020					Expired
C0097US005	United States	Extracellular vesicles for Coronavirus Therapy	63/142,418	02/03/2021					Expired
C0097US007	United States	Extracellular vesicles for Therapy	17/906,849	09/20/2022					Pending
C0097WO001[3]	PCT	Extracellular vesicles for Coronavirus Therapy	PCT/US2021/023485	03/22/2021	WO2021/189047	09/23/2021			Expired

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0100US001	United States	Anti-Transferrin Extracellular Vesicles	63/035,370	06/05/2020					Expired
C0100US002	United States	Anti-Transferrin Extracellular Vesicles	63/161,362	03/15/2021					Expired
C0100US003	United States	Anti-Transferrin Extracellular Vesicles	18/000,799	12/05/2022					Pending
C0100WO001	PCT	Anti-Transferrin Extracellular Vesicles	PCT/US2021 /036234	06/07/2021	WO2021/248133	12/09/2021			Expired
C0101US001	United States	Multifunctional extracellular vesicles and uses thereof	62/992,797	03/20/2020					Expired
C0101US002	United States	Multifunctional extracellular vesicles and uses thereof	63/023,762	05/12/2020					Expired
C0101US003	United States	Multifunctional extracellular vesicles and uses thereof	63/035,321	06/05/2020					Expired
C0102US001	United States	VNAR/Camelid Antibody Extracellular Vesicles	63/035,382	06/05/2020					Expired
C0102US002	United States	VNAR/Camelid Antibody Extracellular Vesicles	63/066,107	08/14/2020					Expired
C0103US001	United States	Extracellular Vesicle for Treating Lung Disease	63/028,460	05/21/2020					Expired
C0103US002	United States	Extracellular Vesicle for Treating Lung Disease	62/704,988	06/05/2020					Expired
C0103US003	United States	Extracellular Vesicle for Treating Lung Disease	63/181,883	04/29/2021					Expired
C0103WO001	PCT	Methods of Targeting Extracellular Vesicles to Lung	PCT/US2021 /033668	05/21/2021	WO2021/237100	11/25/2021			Expired
C0104US001	United States	Extracellular Vesicles comprising Gene Editing Tool	63/035,314	06/05/2020					Expired

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0105US001	United States	Extracellular Vesicles Comprising Hyaluronidase	63/035,249	06/05/2020					Expired
C0106US001	United States	Extracellular Vesicles Comprising VEGF	62/704,991	06/05/2020					Expired
C0107US001	United States	Extracellular Vesicles for Nucleotide Delivery	62/704,995	06/05/2020					Expired
C0114EP001	Europe	Methods of Treating Cancer	21778596.3	08/17/2021					Pending
C0114JP001	Japan	Methods of Treating Cancer	2023-511932	8/17/2021					Pending
C0114US001	United States	Methods of Treating Cancer	63/066,603	08/17/2020					Expired
C0114US002	United States	Methods of Treating Cancer	63/069,423	08/24/2020					Expired
C0114US003	United States	Methods of Treating Cancer	63/131,870	12/30/2020					Expired
C0114US004	United States	Methods of Treating Cancer	63/136,051	01/11/2021					Expired
C0114US005	United States	Methods of Treating Cancer	63/145,762	02/04/2021					Expired
C0114US006	United States	Methods of Treating Cancer	63/166,772	03/26/2021					Expired
C0114US007	United States	Methods of Treating Cancer	18/042,068	02/17/2023					Pending
C0114WO001	United States	Methods of Treating Cancer	PCT/US2021 /046358	08/17/2021	WO 2022/040223 A1	02/24/2022			Pending
C0116CA001	Canada	Process for Preparing Extracellular Vesicles	3,193,107	09/23/2021					Pending
C0116EP	Europe	Process for Preparing Extracellular Vesicles	21798866.6	09/23/2021					Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0116US001	United States	Process for Preparing Extracellular Vesicles	63/082,358	09/23/2020					Expired
C0116US002	United States	Process for Preparing Extracellular Vesicles	18/246,312	09/23/2021					Pending
C0116WO001	PCT	Process for Preparing Extracellular Vesicles	PCT/US2021/051783	09/23/2021	WO2022/066934	03/31/2022			Expired
C0118US001	United States	Process for Preparing Extracellular Vesicles	63/082,434	09/23/2020					Expired
C0118US002	United States	Process for Preparing Extracellular Vesicles	63/083,034	09/24/2020					Expired
C0118US003	Unites States	Process for Preparing Extracellular Vesicles	18/246,301	09/23/2021					Pending
C0118WO001	PCT	Process for Preparing Extracellular Vesicles	PCT/US2021/051777	09/23/2021	WO2022/066928	03/31/2022			Expired
C0119CA001	Canada	Method of Producing Extracellular Vesicle-Based Vaccines	3,192,470	09/23/2021					Pending
C0119EP	Europe	Method of Producing Extracellular Vesicle-Based Vaccines	21795085.6	09/23/2021					Pending
C0119US001	United States	Method of Producing Extracellular Vesicle-Based Vaccines	63/082,453	09/23/2020					Expired
C0119US002	United States	Method of Producing Extracellular Vesicle-Based Vaccines	63/161,331	03/15/2021					Expired
C0119US003	United States	Method of Producing Extracellular Vesicle-Based Vaccines	18/246,304	09/23/2021					Pending
C0119WO001	PCT	Method of Producing Extracellular Vesicle-Based Vaccines	PCT/US2021/051742	09/23/2021	WO2022/066898	03/31/2022			Expired
C0120US001	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	63/088,312	10/06/2020					Expired

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0120US002	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	63/141,829	01/28/2021					Expired
C0120US003	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	63/160,596	03/12/2021					Expired
C0120US004	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	63/169,753	04/01/2021					Expired
C0120US005	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	63/225,852	07/26/2021					Expired
C0120US006	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	63/244,626	09/15/2021					Expired
C0120US007	United States	Extracellular Vesicle-ASO Constructs Targeting STAT6	18/248,036	10/06/2021					Pending
C0120WO001	PCT	Extracellular Vesicle-ASO Constructs Targeting STAT6	PCT/US2021 /053825	10/06/2021	WO2022/076596	04/14/2022			Expired
C0121US001	United States	Extracellular Vesicles Comprising KRAS Antigen and Uses Thereof	63/082,433	09/23/2020					Expired
C0121WO001	PCT	Extracellular Vesicles Comprising KRAS Antigen and Uses Thereof	PCT/US2021 /051720	09/23/2021	WO2022/066883	03/31/2022			Expired
C0124US001	United States	Use of Extracellular Vesicle With NLRP3 ASO	63/150,453	02/17/2021					Expired
C0124WO001	PCT	Use of Extracellular Vesicle With NLRP3 ASO	PCT/US2022 /016828	02/17/2022	WO2022/178149 A2	08/25/2022			Pending
C0125US001	United States	Optimization of Linker Chemistry for Loading of Payloads to Exosomes	63/150,523	02/17/2021					Expired
C0125WO001	PCT	Optimization of Linker Chemistry for Loading of Payloads to Exosomes	PCT/US2022 /016870	02/17/2022	WO2022/178180 A1	08/25/2022			Pending
C0126US001	United States	Methods of Loading Extracellular Vesicles	63/150,497	02/17/2021					Expired

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0126WO001	PCT	Methods of Loading Extracellular Vesicles	PCT/US2022/016825	02/17/2022	WO2022/178147	08/25/2022			Pending
C0127US001	United States	Extracellular Vesicle Compositions	63/169,751	04/01/2021					Expired
C0127WO001	PCT	Extracellular Vesicle Compositions	PCT/US2022/023120	04/01/2022	WO2022/212884	10/6/2022			Pending
C0129US001	United States	Modified Producer Cells for Exosome Production	63/255,857	10/14/2021					Expired
C0129PC001	PCT	Modified Producer Cells for Exosome Production	PCT/US2022/078150	10/14/2022					Pending
C0130US001	United States	Extracellular vesicle Comprising Cholesterol Tagged Sting-Agonist	63/261,918	09/30/2021					Expired
C0130US002	US	Extracellular vesicle Comprising Cholesterol Tagged Sting-Agonist	63/364,875	05/17/2022					Pending
C0130PC001	PCT	Extracellular vesicle Comprising Cholesterol Tagged Sting-Agonist	PCT/US202/077424	09/30/2022	WO2023/056468	04/06/2023			Pending
C0133US001	United States	Extracellular Vesicles Sting-Agonist	63/357,568	06/30/2022					Pending
C0134US001	United States	Extracellular Vesicle Comprising a Biologically Active Molecule and a Cleavable Linker	63/371,709	08/17/2022					Pending
C0137US001	United States	Exo-Aso Stat6 Dosing	63/357,573	06/30/2022					Pending
C0137US002	United States	Exo-Aso Stat6 Dosing	63/385,371	11/29/2022					Pending
C0138US001	United States	Extracellular Vesicle-ASO Constructs Targeting CEBP/BETA	63/369,650	07/27/2022					Pending
C0139US001	United States	Extracellular Vesicle Comprising a Biologically	63/371,707	08/17/2022					Pending

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
		Active Molecule and a Dual Cleavable Linker							
C0140US001	United States	Extracellular Vesicle Comprising a Biologically Active Molecule and a Cell Penetrating Peptide Cleavable Linker	63/371,711	08/17/2022					Pending
C0141US001	United States	Methods of Treating a Tumor	63/357,552	06/30/2022					Pending
C0142US001	United States	Use of Monolithic Anion Exchange Chromatography and Light Scattering for Quantifying Extracellular Vesicles	63/390,266	07/19/2022					Pending
C0148US001	United States	Methods of Producing Extracellular Vesicle	63/490,750	03/16/2023					Pending
C0149US001	United States	Process for Preparing Extracellular Vesicles	63/499,032	04/28/2023					Pending

II. Acquired Families – Currently Codiak BioSciences, Inc.

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0004US001	United States	Exosome transfer of nucleic acids to cells	60/797,149	05/03/2006					Expired
C0004US002	United States	Exosome transfer of nucleic acids to cells	11/799,148	04/30/2007	2007-0298118	12/27/2007	9,085,778	07/21/2015	Abandoned
C0004US003	United States	Exosome transfer of nucleic acids to cells	14/750,457	06/25/2015	2015-0290343	10/15/2015	9,629,929	04/25/2017	Issued
C0004US004	United States	Exosome transfer of nucleic acids to cells	15/476,844	03/31/2017	2017-0258938	09/14/2017	9,889,210	02/13/2018	Issued
C0004US005	United States	Exosome transfer of nucleic acids to cells	15/857,539	12/28/2017	2018-0236104	08/23/2018			Abandoned
C0004US006	United States	Exosome transfer of nucleic acids to cells	16/201,937	11/27/2018	2019-0111155	04/18/2019	10,695,443	06/30/2020	Issued
C0004US007	United States	Exosome transfer of nucleic acids to cells	16/905,719	06/18/2020	2021-0000976	01/07/2021			Pending
C0004CH001	Switzerland	Exosome transfer of nucleic acids to cells	07748459.0	05/02/2007	2010663	01/07/2009	2010663	03/18/2015	Abandoned
C0004CN001	China P.R.	Exosome transfer of nucleic acids to cells	200780015469	05/02/2007	101432432	05/13/2009			Abandoned
C0004CN002	China P.R.	Exosome transfer of nucleic acids to cells							Abandoned
C0004CN003	China P.R.	Exosome transfer of nucleic acids to cells	201511022904.5	05/02/2007	105838739	08/10/2016			Abandoned
C0004CN004	China P.R.	Exosome transfer of nucleic acids to cells	201511027801.8	05/02/2007	105886535	08/24/2016			Abandoned
C0004CN005	China P.R.	Exosome transfer of nucleic acids to cells	201511020635.9	05/02/2007	105821081	08/03/2016			Abandoned
C0004DE001	Germany	Exosome transfer of nucleic acids to cells	2010663	05/02/2007	2010663	01/07/2009	602007040676.5	03/18/2015	Abandoned

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0004EP001	EPC	Exosome transfer of nucleic acids to cells	07748459.0	05/02/2007	2010663	01/07/2009	2010663	03/18/2015	Abandoned
C0004EP002	EPC	Exosome transfer of nucleic acids to cells	15158949.6	05/02/2007	2905339	08/12/2015			Abandoned
C0004EP003	EPC	Exosome transfer of nucleic acids to cells	18158203.2	05/02/2007	3378942	09/26/2018			Abandoned
C0004ES001	Spain	Exosome transfer of nucleic acids to cells	07748459.0	05/02/2007	2010663	01/07/2009	2539760	03/18/2015	Abandoned
C0004FR001	France	Exosome transfer of nucleic acids to cells	07748459.0	05/02/2007	2010663	01/07/2009	2010663	03/18/2015	Abandoned
C0004GB001	United Kingdom	Exosome transfer of nucleic acids to cells	07748459.0	05/02/2007	2010663	01/07/2009	2010663	03/18/2015	Abandoned
C0004HK003	Hong Kong	Exosome transfer of nucleic acids to cells	19120924.6	03/14/2019					Abandoned
C0004IE001	Ireland	Exosome transfer of nucleic acids to cells	07748459.0	05/02/2007	2010663	01/07/2009	2010663	03/18/2015	Abandoned
C0004IT001	Italy	Exosome transfer of nucleic acids to cells	502015000024792	05/02/2007	2010663	01/07/2009	2010663	03/18/2015	Abandoned
C0004WO001	PCT	Exosome transfer of nucleic acids to cells	PCT/SE2007/050298	05/02/2007	WO 2007/126386	11/08/2007			Expired
C0005US001	United States	Delivery of therapeutic agent	14/442,578	11/13/2013	2016-0168572	06/16/2016	9,856,477	01/02/2018	Abandoned
C0005US002	United States	Delivery of therapeutic agent	15/824,793	11/28/2017	2018-0135056	05/17/2018	10,370,663	08/06/2019	Issued
C0005US003	United States	Delivery of therapeutic agent	16/530,750	08/02/2019	2020-0063138	02/27/2020			Abandoned
C0005CA001	Canada	Delivery of therapeutic agent	2,930,339	11/13/2013	2,930,339	05/22/2014			Abandoned
C0005CH001	Switzerland	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0005CN001	China P.R.	Delivery of therapeutic agent	201380069683.X	11/13/2013	CN105051192A	11/11/2015	ZL2013 8 0069683.X	04/17/2020	Abandoned
C0005DE001	Germany	Delivery of therapeutic agent	2920306	11/13/2013	2920306	09/23/2015	60 2013 039 472.5	06/27/2018	Abandoned
C0005EP001	EPC	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned
C0005EP002	EPC	Delivery of therapeutic agent	18172402.2	11/13/2013	3415627	12/19/2018			Abandoned
C0005ES001	Spain	Delivery of therapeutic agent	2920306	11/13/2013	2920306	09/23/2015	ES2686129 (T3)	06/27/2018	Abandoned
C0005FR001	France	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned
C0005GB001	United Kingdom	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned
C0005HK001	Hong Kong	Delivery of therapeutic agent	16103132.5	03/17/2016	1216105 A	10/14/2016	1216105 B	02/01/2019	Abandoned
C0005HK002	Hong Kong	Delivery of therapeutic agent	19100801.8	01/28/2019					Abandoned
C0005IE001	Ireland	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned
C0005IT001	Italy	Delivery of therapeutic agent	502018000027474	11/13/2013	2920306	09/23/2015	502018000027474	06/27/2018	Abandoned
C0005JP001	Japan	Delivery of therapeutic agent	2015-542258	11/13/2013	2016-502404	01/28/2016	6391582	08/31/2018	Abandoned
C0005JP002	Japan	Delivery of therapeutic agent	2018-154386	11/13/2013	2020-114258	07/30/2020			Abandoned
C0005JP003	Japan	Delivery of therapeutic agent	2020-079915	04/30/2020					Abandoned
C0005LI001	Liechtenstein	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned

Ref #	Country	Title	Application Number	Application Date	Publication Number	Publication Date	Patent Number	Grant Date	Status
C0005NL001	Netherlands	Delivery of therapeutic agent	13789802.9	11/13/2013	2920306	09/23/2015	2920306	06/27/2018	Abandoned
C0005WO001	PCT	Delivery of therapeutic agent	PCT/EP2013/073740	11/13/2013	WO 2014/076137	05/22/2014			Expired
C0009US001	United States	Therapeutic membrane vesicles	62/308,805	03/15/2016					Expired
C0009US002	United States	Therapeutic membrane vesicles	16/084,169	03/15/2017	2020-0155703	05/21/2020			Abandoned
C0009AU001	Australia	Therapeutic membrane vesicles	2017232498	03/15/2017					Abandoned
C0009BR001	Brazil	Therapeutic membrane vesicles	BR112018068746 4	03/15/2017					Abandoned
C0009CA001	Canada	Therapeutic membrane vesicles	3,017,586	03/15/2017					Abandoned
C0009CN001	China P.R.	Therapeutic membrane vesicles	201780017785.5	03/15/2017					Abandoned
C0009EP001	EPC	Therapeutic membrane vesicles	17767451.2	03/15/2017	3430024	01/23/2019			Abandoned
C0009HK001	Hong Kong	Therapeutic membrane vesicles	19127000.8	03/15/2017	40003516A	04/09/2020			Abandoned
C0009IL001	Israel	Therapeutic membrane vesicles	261490	03/15/2017					Abandoned
C0009IN001	India	Therapeutic membrane vesicles	201847037677	03/15/2017	41/2018	10/12/2018			Abandoned
C0009JP001	Japan	Therapeutic membrane vesicles	2018-548834	03/15/2017					Abandoned
C0009KR001	Republic of Korea	Therapeutic membrane vesicles	10-2018-7029763	03/15/2017	10-2018-0122433	11/12/2018			Abandoned
C0009MX001	Mexico	Therapeutic membrane vesicles	MX/A/2018/011202	03/15/2017	MX/A/2018/011202	03/28/2019			Abandoned

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C0009NZ001	New Zealand	Therapeutic membrane vesicles	746672	03/15/2017					Abandoned
C0009WO001	PCT	Therapeutic membrane vesicles	PCT/US2017/022544	03/15/2017	WO 2017/161010	09/21/2017			Expired
C0009RU001	Russian Federation	Therapeutic membrane vesicles	2018136151	03/15/2017					Abandoned
C0009SG001	Singapore	Therapeutic membrane vesicles	11201807401R	03/15/2017	11201807401R	09/27/2018			Abandoned
C0009SG002	Singapore	Therapeutic membrane vesicles	10202008883S	03/15/2017					Abandoned