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4. bears the seal/stamp of KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758892
9. Seal/Stamp
10. Signature:

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 061745/0332 from: MEDIMMUNE, LLC (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: November 12, 2022 to ASTRAZENENCA UK LIMITED (hereinafter referred to as "the Assignee") for corresponding rights, title, and interest of patent application No. 63/371,454 filed on August 15, 2022, this document was presented to me by: Sal Gonzalez

Sal Gonzalez

Notary Public

My Commission Expires: 14th November 2029

District of Columbia
Subscribed and sworn to before me,
this 17th day of December 2024

Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

KAMAL S. AHMAD NOTARY PUBLIC DISTRICT OF COLUMBIA

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 15, 2022

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STERNE, KESSLER, GOLDSTEIN & FOX
P.L.L.C.
1100 NEW YORK AVENUE, N.W.
SUITE 900
WASHINGTON, DC 20005

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RECORDATION DATE: 11/12/2022

REEL/FRAME: 061745/0332
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180001

ASSIGNOR:
MEDIMMUNE, LLC

DOC DATE: 10/24/2022

ASSIGNEE:
ASTRAZENENCA UK LIMITED
1 FRANCIS CRICK AVENUE
CAMBRIDGE BIOMEDICAL CAMPUS
CAMBRIDGE, UNITED KINGDOM CB2 0AA

APPLICATION NUMBER: 63371454
FILING DATE: 08/15/2022
PATENT NUMBER:
ISSUE DATE:
TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

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Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MEDIMMUNE, LLC	10/24/2022

RECEIVING PARTY DATA

Name:	ASTRAZENENCA UK LIMITED
Street Address:	1 FRANCIS CRICK AVENUE
Internal Address:	CAMBRIDGE BIOMEDICAL CAMPUS
City:	CAMBRIDGE
State/Country:	UNITED KINGDOM
Postal Code:	CB2 0AA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63371454

CORRESPONDENCE DATA

Fax Number: (202)371-2540
Phone: (202) 371-2600
Email: thaynesw@sternekessler.com

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

...ent Name:	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
...ress Line 1:	1100 NEW YORK AVENUE, N.W.
Address Line 2:	SUITE 900
Address Line 4:	WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180001
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	11/12/2022

Total Attachments: 2
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EPAS ID:	PAT7642091
Receipt Date:	11/12/2022

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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of August 15, 2022 (the "**Effective Date**") by and between

(1) **MEDIMMUNE, LLC,** a limited liability company formed under the laws of the State of Delaware, whose post office address is One MedImmune Way, Gaithersburg, Maryland 20878, the United States of America (**"Assignor"**); and

(2) **ASTRAZENECA UK LIMITED**, a company incorporated in England and Wales under No. 3674842 with registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, CB2 0AA, United Kingdom (**"Assignee"**).

WHEREAS, Assignor has agreed to assign to Assignee the Assignor's entire right and interest in and to U.S. Provisional Application No. 63/371,454 filed on August 15, 2022 (the "**Application**") and in and to the inventions and improvements disclosed in such Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignor, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the **"Rights"**), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignor hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignor hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of England and Wales and the parties hereby submit to the exclusive jurisdiction of the English courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Patrick Scott Alban

Signed for and on behalf of
MedImmune, LLC
Name: Patrick Scott Alban
Title: Authorised Signatory

Dated: October 24, 2022

17634936_1.docx

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2. This public document has been signed by KAMAL S. AHMAD
3. acting in the capacity of NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA
4. bears the seal/stamp of KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758893
9. Seal/Stamp
10. Signature:

Kimberly A. Bassett

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 061745/0335 from: ASTRAZENECA PHARMACEUTICALS LP (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: November 12, 2022 to ASTRAZENECA UK LIMITED (hereinafter referred to as "the Assignee") for corresponding rights, title, and interest of patent application No. 63/371,454 filed on August 15, 2022, this document was presented to me by: S Gonzalez

Sal Gonzalez

Kamal Ahmad

Notary Public

My Commission Expires: 14th November 2029

DISTRICT OF COLUMBIA * KAMAL S. AHMAD NOTARY PUBLIC *

District of Columbia
Subscribed and sworn to before me,
this 17th day of November, 2024
Kamal Ahmad
Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 15, 2022

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P.L.L.C.
1100 NEW YORK AVENUE, N.W.
SUITE 900
WASHINGTON, DC 20005

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RECORDATION DATE: 11/12/2022 REEL/FRAME: 061745/0335
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180001

ASSIGNOR:
ASTRAZENECA PHARMACEUTICALS LP DOC DATE: 10/21/2022

ASSIGNEE:
ASTRAZENECA UK LIMITED
1 FRANCIS CRICK AVENUE
CAMBRIDGE BIOMEDICAL CAMPUS
CAMBRIDGE, UNITED KINGDOM CB2 0AA

APPLICATION NUMBER: 63371454 FILING DATE: 08/15/2022
PATENT NUMBER: ISSUE DATE:
TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ASTRAZENECA PHARMACEUTICALS LP	10/21/2022

RECEIVING PARTY DATA

Name:	ASTRAZENECA UK LIMITED
Street Address:	1 FRANCIS CRICK AVENUE
Internal Address:	CAMBRIDGE BIOMEDICAL CAMPUS
City:	CAMBRIDGE
State/Country:	UNITED KINGDOM
Postal Code:	CB2 0AA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63371454

CORRESPONDENCE DATA

Fax Number: (202)371-2540
Phone: (202) 371-2600
Email: thaynesw@sternekessler.com

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

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... Line 1:	1100 NEW YORK AVENUE, N.W.
...dress Line 2:	SUITE 900
Address Line 4:	WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180001
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	11/12/2022

Total Attachments: 2
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EPAS ID:	PAT7642090
Receipt Date:	11/12/2022

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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **August 15, 2022** (the "**Effective Date**") by and between

(1) **ASTRAZENECA PHARMACEUTICALS LP,** a Delaware limited partnership with registered office address at 1800 Concord Pike, P. O. Box 15437, Wilmington, Delaware 19850-5437, United Sates of America ("**Assignor**"); and

(2) **ASTRAZENECA UK LIMITED**, a company incorporated in England and Wales under No. 3674842 with registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, CB2 0AA, United Kingdom **("Assignee")**.

WHEREAS, Assignor has agreed to assign to Assignee the Assignor's entire right and interest in and to U.S. Provisional Application No. 63/371,454 filed on August 15, 2022 (the "**Application**") and in and to the inventions and improvements disclosed in such Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the **"Rights"**), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

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a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of England and Wales and the parties hereby submit to the exclusive jurisdiction of the English courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Signed for and on behalf of
AstraZeneca Pharmaceuticals LP
Name: Meaghan Richmond
Title: Authorised Signatory

Dated: 21-Oct-2022

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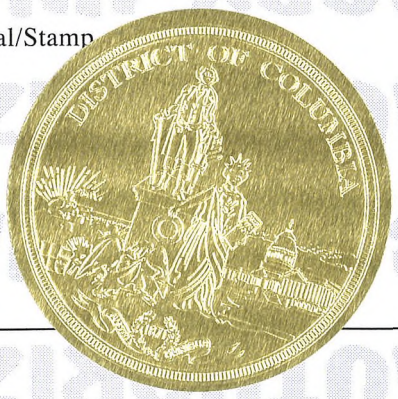
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4. bears the seal/stamp of DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758890
9. Seal/Stamp



10. Signature:

Kimberly A. Bassett

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 061745/0345 from the inventors: COHEN, TAYLOR; FRANCICA, JOE; RAJAN, SARAVAN; CAI, YINGYUN (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: November 12, 2022 to ASTRAZENECA PHARMACEUTICALS LP (hereinafter referred to as "the Assignee"). for corresponding rights, title, and interest of patent application No. 63/371,454 filed on August 15, 2022, this document was presented to me by: Sal Gonzalez

Sal Gonzalez

Notary Public

My Commission Expires: 14th November 2029

KAMAL S. AHMAD NOTARY PUBLIC

District of Columbia
Subscribed and sworn to before me,
this 17th day of December, 2024

Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 15, 2022

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STERNE, KESSLER, GOLDSTEIN & FOX
P.L.L.C.
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WASHINGTON, DC 20005

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RECORDATION DATE: 11/12/2022

REEL/FRAME: 061745/0345
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180001

ASSIGNOR:
COHEN, TAYLOR — DOC DATE: 08/29/2022

ASSIGNOR:
FRANCICA, JOHN — DOC DATE: 08/29/2022

ASSIGNOR:
RAJAN, SARAVANAN — DOC DATE: 10/14/2022

ASSIGNOR:
CAI, YINGYUN — DOC DATE: 08/29/2022

ASSIGNEE:
ASTRAZENECA PHARMACEUTICALS LP
1800 CONCORD PIKE
P.O. BOX 15437
WILMINGTON, DELAWARE 19850-5437

APPLICATION NUMBER: 63371454 FILING DATE: 08/15/2022
PATENT NUMBER: ISSUE DATE:
TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

ASSIGNMENT RECORDATION BRANCH
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAYLOR COHEN	08/29/2022
JOHN FRANCICA	08/29/2022
SARAVANAN RAJAN	10/14/2022
YINGYUN CAI	08/29/2022

RECEIVING PARTY DATA

Name:	ASTRAZENECA PHARMACEUTICALS LP
Street Address:	1800 CONCORD PIKE
Internal Address:	P.O. BOX 15437
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19850-5437

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63371454

CORRESPONDENCE DATA

(202)371-2540
(202) 371-2600
thaynesw@sternekessler.com

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

...orrespondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
Address Line 1: 1100 NEW YORK AVENUE, N.W.
Address Line 2: SUITE 900
Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180001
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	11/12/2022

Total Attachments: 8
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Receipt Date: 11/12/2022

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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **August 15, 2022** (the "**Effective Date**") by and between

Taylor COHEN, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Joe FRANCICA, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Saravanan RAJAN, a citizen of Canada, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA; and
YingYun CAI, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignors**"); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership formed under the laws of the Delaware, whose post office address is 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/371,454** was filed on **August 15, 2022** (the "**Application**").

B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "**Rights**"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of the State of Delaware and the parties hereby submit to the exclusive jurisdiction of the Delaware courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Taylor COHEN

Date: 3/29/22

Joe FRANCICA

Date:_____

Saravan RAJAN

Date:_____

YingYun CAI

Date:_____

18575971_1

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **August 15, 2022** (the "**Effective Date**") by and between

Taylor COHEN, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Joe FRANCICA, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Saravanan RAJAN, a citizen of Canada, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA; and
YingYun CAI, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignors**"); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership formed under the laws of the Delaware, whose post office address is 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/371,454** was filed on **August 15, 2022** (the "**Application**").

B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "**Rights**"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

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_____	_____
Taylor COHEN	**Joe FRANCICA**
Date:_____	Date: 8/29/22
_____	_____
Saravan RAJAN	**YingYun CAI**
Date:_____	Date:_____

18575971_1

Docket No. 2943.2180001
(COVIDOMI-100-PR2)

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **August 15, 2022** (the "**Effective Date**") by and between

Taylor COHEN, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Joe FRANCICA, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Saravanan RAJAN, a citizen of Canada, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA; and
YingYun CAI, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignors**"); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership formed under the laws of the Delaware, whose post office address is 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/371,454** was filed on **August 15, 2022** (the "**Application**").

B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

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Taylor COHEN	**Joe FRANCICA**
Date:_____	Date:_____
Saravanan RAJAN	**YingYun CAI**
Date: Oct 14 2022	Date:_____

18575971_1

Docket No. 2943.2180001
(COVIDOMI-100-PR2)

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **August 15, 2022** (the "**Effective Date**") by and between

Taylor COHEN, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Joe FRANCICA, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Saravanan RAJAN, a citizen of Canada, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA; and
YingYun CAI, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignors**"); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership formed under the laws of the Delaware, whose post office address is 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/371,454** was filed on **August 15, 2022** (the "**Application**").

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Taylor COHEN	**Joe FRANCICA**
Date:_____	Date:_____
Saravan RAJAN	**YingYun CAI**
Date:_____	Date: 8/29/2022

18575971_1

This Apostille is not valid for use anywhere within the United States of America, its territories or possessions.

This Apostille only certifies the authenticity of the signature and the capacity of the person who has signed the public document, and, where appropriate, the identity of the seal or stamp which the public document bears.

This Apostille does not certify the content of the document for which it was issued.

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(Convention de La Haye du 5 octobre 1961)

1. District of Columbia, United States of America
2. This public document has been signed by KAMAL S. AHMAD
3. acting in the capacity of NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA
4. bears the seal/stamp of KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758891
9. Seal/Stamp
10. Signature:

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 061745/0338 from the inventors: KAPLAN, GILAD; DIPPEL, ANDREW (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: November 12, 2022 to MEDIMMUNE, LLC (hereinafter referred to as "the Assignee"). for corresponding rights, title, and interest of patent application No. 63/371,454 filed on August 15, 2022, this document was presented to me by:

Sal Gonzalez

Notary Public

My Commission Expires: 14th November 2029



District of Columbia
Subscribed and sworn to before me,
this 17th day of December, 2024

Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 15, 2022

PTAS

STERNE, KESSLER, GOLDSTEIN & FOX
P.L.L.C.
1100 NEW YORK AVENUE, N.W.
SUITE 900
WASHINGTON, DC 20005

507595202

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/12/2022
REEL/FRAME: 061745/0338
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180001

ASSIGNOR:
KAPLAN, GILAD
DOC DATE: 08/26/2022

ASSIGNOR:
DIPPEL, ANDREW
DOC DATE: 08/26/2022

ASSIGNEE:
MEDIMMUNE, LLC
ONE MEDIMMUNE WAY
GAITHERSBURG, MARYLAND 20878

APPLICATION NUMBER: 63371454
FILING DATE: 08/15/2022
PATENT NUMBER:
ISSUE DATE:
TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

Electronic Patent Assignment System

Confirmation Receipt

Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GILAD KAPLAN	08/26/2022
ANDREW DIPPEL	08/26/2022

RECEIVING PARTY DATA

Name:	MEDIMMUNE, LLC
Street Address:	ONE MEDIMMUNE WAY
City:	GAITHERSBURG
State/Country:	MARYLAND
Postal Code:	20878

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63371454

CORRESPONDENCE DATA

Fax Number: (202)371-2540
Phone: (202) 371-2600
Email: thaynesw@sternekessler.com

	...ent to the e-mail address first; if that is unsuccessful, it will be sent using a fax ..., if that is unsuccessful, it will be sent via US Mail.
...ent Name:	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
...ss Line 1:	1100 NEW YORK AVENUE, N.W.
Address Line 2:	SUITE 900
Address Line 4:	WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180001
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	11/12/2022

Total Attachments: 2
source=Assignment-2943-2180000 (Inventors-MEDI)#page1.tif
source=Assignment-2943-2180000 (Inventors-MEDI)#page2.tif

RECEIPT INFORMATION

EPAS ID:	PAT7642092
Receipt Date:	11/12/2022

Return to home page

| HOME | INDEX| SEARCH | eBUSINESS | CONTACT US | PRIVACY STATEMENT

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **August 15, 2022** (the "**Effective Date**") by and between

Gilad KAPLAN, a citizen of Israel and **Andrew DIPPEL**, a United States citizen, both of c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, USA ("**Assignors**"); and

MEDIMMUNE, LLC, a limited liability company formed under the laws of the State of Delaware, whose post office address is One MedImmune Way, Gaithersburg, Maryland 20878, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/371,454** was filed on **August 15, 2022** (the "**Application**").

B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

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Gilad KAPLAN

Date: 08/26/2022

Andrew DIPPEL

Date: 8/26/2022

18575526_1

This Apostille is not valid for use anywhere within the United States of America, its territories or possessions.

This Apostille only certifies the authenticity of the signature and the capacity of the person who has signed the public document, and, where appropriate, the identity of the seal or stamp which the public document bears.

This Apostille does not certify the content of the document for which it was issued.

Apostille

(Convention de La Haye du 5 octobre 1961)

1. District of Columbia, United States of America
2. This public document has been signed by KAMAL S. AHMAD
3. acting in the capacity of NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA
4. bears the seal/stamp of KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758896
9. Seal/Stamp:



10. Signature:

Kimberly A. Bassett

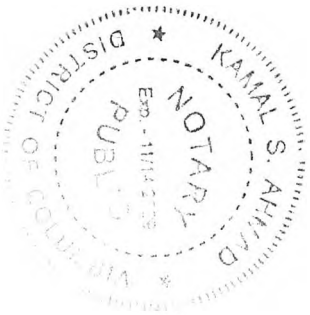
Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 060905/0162 from the inventors: KAPLAN, GILAD; DIPPEL, ANDREW (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: August 25, 2022 to MEDIMMUNE, LLC (hereinafter referred to as "the Assignee"). for corresponding rights, title, and interest of patent application No. 63/336,332 filed on April 29, 2022, this document was presented to me by: Sal Gonzalez

Notary Public

My Commission Expires: 14th November 2029



District of Columbia
Subscribed and sworn to before me,
this 17th day of December, 2024

Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 26, 2022

PTAS

STERNE, KESSLER, GOLDSTEIN & FOX
P.L.L.C.
1100 NEW YORK AVENUE, N.W.
SUITE 900
WASHINGTON, DC 20005

507459078

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RECORDATION DATE: 08/25/2022
REEL/FRAME: 060905/0162
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180000

ASSIGNOR:
KAPLAN, GILAD
DOC DATE: 06/15/2022

ASSIGNOR:
DIPPEL, ANDREW
DOC DATE: 06/15/2022

ASSIGNEE:
MEDIMMUNE, LLC
ONE MEDIMMUNE WAY
GAITHERSBURG, MARYLAND 20878

APPLICATION NUMBER: 63336332
FILING DATE: 04/29/2022
PATENT NUMBER:
ISSUE DATE:
TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GILAD KAPLAN	06/15/2022
ANDREW DIPPEL	06/15/2022

RECEIVING PARTY DATA

Name:	MEDIMMUNE, LLC
Street Address:	ONE MEDIMMUNE WAY
City:	GAITHERSBURG
State/Country:	MARYLAND
Postal Code:	20878

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63336332

CORRESPONDENCE DATA

Fax Number: (202)371-2540
Phone: 202-371-2600
Email: cderenzo@sternekessler.com, thaynesw@sternekessler.com

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

...dent Name:	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
...ddress Line 1:	1100 NEW YORK AVENUE, N.W.
Address Line 2:	SUITE 900
Address Line 4:	WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180000
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	08/25/2022

Total Attachments: 2
source=2022-08-25-Assignment-MedimmuneInventors-Medimmune-2943-2180000#page1.tif
source=2022-08-25-Assignment-MedimmuneInventors-Medimmune-2943-2180000#page3.tif

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EPAS ID:	PAT7505971
Receipt Date:	08/25/2022

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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **April 29, 2022** (the "**Effective Date**") by and between

Gilad KAPLAN, a citizen of Israel and **Andrew DIPPEL,** a United States citizen, both of c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, USA ("**Assignors**"); and

MEDIMMUNE, LLC, a limited liability company formed under the laws of the State of Delaware, whose post office address is One MedImmune Way, Gaithersburg, Maryland 20878, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/336,332** was filed on **April 29, 2022** (the "**Application**").

B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the **"Rights"**), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of the State of Delaware and the parties hereby submit to the exclusive jurisdiction of the Delaware courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Gilad KAPLAN

Date: 06/15/2022

Andrew DIPPEL

Date: 6/15/2022

18575526_1

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2. This public document has been signed by KAMAL S. AHMAD
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   KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE
4. bears the seal/stamp of DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758895
9. Seal/Stamp:



10. Signature:

Kimberly A. Bassett

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 060905/0173 from: MEDIMMUNE, LLC (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: August 25, 2022, to ASTRAZENECA UK LIMITED (hereinafter referred to as "the Assignee"). for corresponding rights, title, and interest of patent application No. 63/336,332 filed on April 29, 2022, this document was presented to me by: Sal Gonzalez

Notary Public

My Commission Expires: 14th November 2029

District of Columbia
Subscribed and sworn to before me,
this 17th day of December, 2024
Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 26, 2022

PTAS

STERNE, KESSLER, GOLDSTEIN & FOX
P.L.L.C.
1100 NEW YORK AVENUE, N.W.
SUITE 900
WASHINGTON, DC 20005

507459083

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RECORDATION DATE: 08/25/2022

REEL/FRAME: 060905/0173
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180000

ASSIGNOR:
MEDIMMUNE, LLC

DOC DATE: 07/18/2022

ASSIGNEE:
ASTRAZENECA UK LIMITED
1 FRANCIS CRICK AVENUE
CAMBRIDGE BIOMEDICAL CAMPUS
CAMBRIDGE, UNITED KINGDOM CB2 0AA

APPLICATION NUMBER: 63336332
PATENT NUMBER:

FILING DATE: 04/29/2022
ISSUE DATE:

TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

ASSIGNMENT RECORDATION BRANCH
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Electronic Patent Assignment System

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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MEDIMMUNE, LLC	07/18/2022

RECEIVING PARTY DATA

Name:	ASTRAZENECA UK LIMITED
Street Address:	1 FRANCIS CRICK AVENUE
Internal Address:	CAMBRIDGE BIOMEDICAL CAMPUS
City:	CAMBRIDGE
State/Country:	UNITED KINGDOM
Postal Code:	CB2 0AA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63336332

CORRESPONDENCE DATA

Fax Number: (202)371-2540
Phone: 202-371-2600
Email: cderenzo@sternekessler.com, thaynesw@sternekessler.com

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

...uent Name:	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
...dress Line 1:	1100 NEW YORK AVENUE, N.W.
Address Line 2:	SUITE 900
Address Line 4:	WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180000
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	08/25/2022

Total Attachments: 2
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RECEIPT INFORMATION

EPAS ID:	PAT7505976
Receipt Date:	08/25/2022

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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **April 29, 2022** (the "**Effective Date**") by and between

(1) **MEDIMMUNE, LLC,** a limited liability company formed under the laws of the State of Delaware, whose post office address is One MedImmune Way, Gaithersburg, Maryland 20878, the United States of America (**"Assignor"**); and

(2) **ASTRAZENECA UK LIMITED**, a company incorporated in England and Wales under No. 3674842 with a registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, CB2 0AA, United Kingdom (**"Assignee"**).

WHEREAS, Assignor has agreed to assign to Assignee the Assignor's entire right and interest in and to U.S. Application No. **63/336,332** filed on **April 29, 2022** (the "**Application**") and in and to the inventions and improvements disclosed in such Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the **"Rights"**), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of England and Wales and the parties hereby submit to the exclusive jurisdiction of the English courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Patrick Scott

Signed for and on behalf of
MEDIMMUNE, LLC
Name: _____
Title: Authorised Signatory

Dated: 7/18/22

18576184_1

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   KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE
4. bears the seal/stamp of DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 18, day of DECEMBER 2024
7. by *Secretary of the District of Columbia*
8. No. 758905
9. Seal/Stamp:
10. Signature:

Kimberly A. Bassett

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 17th day of December, 2024, I certify that this Notice of Recordation and Assignment Document Reel/Frame 060905/0133 from the inventors: COHEN, TAYLOR; FRANCICA, JOE; RAJAN, SARAVAN; CAI, YINGYUN (referred to as "the Assignor(s)") is a true, exact, complete, and unaltered copy of the recorded assignment, recordation date: August 25, 2022 to ASTRAZENECA PHARMACEUTICALS LP (hereinafter referred to as "the Assignee"). for corresponding rights, title, and interest of patent application No. 63/336,332 filed on April 29, 2022, this document was presented to me by: S Gonzalez

Sal Gonzalez

Kamal Ahmad

Notary Public

My Commission Expires: 14th November 2029

DISTRICT OF COLUMBIA ★ KAMAL S. AHMAD ★ NOTARY PUBLIC Exp. 11/14/2029

District of Columbia
Subscribed and sworn to before me,
this 17th day of December, 2024

Kamal Ahmad

Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 26, 2022

PTAS

STERNE, KESSLER, GOLDSTEIN & FOX
P.L.L.C.
1100 NEW YORK AVENUE, N.W.
SUITE 900
WASHINGTON, DC 20005

507459074

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RECORDATION DATE: 08/25/2022

REEL/FRAME: 060905/0133
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 2943.2180000

ASSIGNOR:
COHEN, TAYLOR — DOC DATE: 06/15/2022

ASSIGNOR:
FRANCICA, JOE — DOC DATE: 06/15/2022

ASSIGNOR:
RAJAN, SARAVAN — DOC DATE: 06/15/2022

ASSIGNOR:
CAI, YINGYUN — DOC DATE: 06/15/2022

ASSIGNEE:
ASTRAZENECA PHARMACEUTICALS LP
1800 CONCORD PIKE
P.O. BOX 15437
WILMINGTON, DELAWARE 19850-5437

APPLICATION NUMBER: 63336332 FILING DATE: 04/29/2022
PATENT NUMBER: ISSUE DATE:
TITLE: SARS-COV-2 ANTIBODIES AND METHODS OF USING THE SAME

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PUBLIC RECORDS DIVISION

Electronic Patent Assignment System

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAYLOR COHEN	06/15/2022
JOE FRANCICA	06/15/2022
SARAVAN RAJAN	06/15/2022
YINGYUN CAI	06/15/2022

RECEIVING PARTY DATA

Name:	ASTRAZENECA PHARMACEUTICALS LP
Street Address:	1800 CONCORD PIKE
Internal Address:	P.O. BOX 15437
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19850-5437

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	63336332

CORRESPONDENCE DATA

-2540
202-371-2600
cderenzo@sternekessler.com, thaynesw@sternekessler.com

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

Correspondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
Address Line 1: 1100 NEW YORK AVENUE, N.W.
Address Line 2: SUITE 900
Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	2943.2180000
NAME OF SUBMITTER:	CYNTHIA L. DERENZO
Signature:	/Cynthia L. DeRenzo #60,789/
Date:	08/25/2022

Total Attachments: 2
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Docket No. 2943.2180000
(COVIDOMI-100)

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **April 29, 2022** (the "**Effective Date**") by and between

Taylor COHEN, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Joe FRANCICA, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA;
Saravanan RAJAN, a citizen of Canada, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA; and
YingYun CAI, a United States citizen, c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignors**"); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership formed under the laws of the Delaware, whose post office address is 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, USA ("**Assignee**").

WHEREAS

A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Patent Application No. **63/336,332** was filed on **April 29, 2022** (the "**Application**").

B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "**Rights**"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

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b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of the State of Delaware and the parties hereby submit to the exclusive jurisdiction of the Delaware courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

Taylor COHEN

Date: 6/15/2022

Joe FRANCICA

Date: 6/15/2022

Saravan RAJAN

Date: 6/15/2022

YingYun CAI

Date: 6/15/2022

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1. District of Columbia, United States of America
2. This public document has been signed by KAMAL S. AHMAD
3. acting in the capacity of NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA

   KAMAL S. AHMAD, NOTARY PUBLIC IN AND FOR THE
4. bears the seal/stamp of DISTRICT OF COLUMBIA

CERTIFIED

5. at Washington, D.C.
6. the 29, day of JANUARY 2025
7. by *Secretary of the District of Columbia*
8. No. 761933
9. Seal/Stamp
10. Signature:

Kimberly A. Bassett

Kimberly A. Bassett
Secretary of the District of Columbia

Notary's Certification

On this 29th day of January, 2025, I certify that the attached Assignment of Patent Rights Document, is a true, exact, complete, unaltered, and correct copy of the original document executed and signed by ASTRAZENECA PHARMACEUTICALS LP (Assignor); to ASTRAZENECA UK LIMITED (Assignee) presented to me by:

SAL GONZALEZ

Notary Public

My Commission Expires: 14th November 2029

District of Columbia
Subscribed and sworn to before me,
this 29 day of January, 2025

Kamal S. Ahmad, Notary Public, D.C.
My Commission expires November 14, 2029

KAMAL S. AHMAD NOTARY PUBLIC DISTRICT OF COLUMBIA

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of **April 29, 2022** (the "**Effective Date**") by and between

(1) **ASTRAZENECA PHARMACEUTICALS LP,** a Delaware limited, with a registered office address at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, the United States of America **("Assignor")**; and

(2) **ASTRAZENECA UK LIMITED**, a company incorporated in England and Wales under No. 3674842 with a registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, CB2 0AA, United Kingdom **("Assignee")**.

WHEREAS, Assignor has agreed to assign to Assignee the Assignor's entire right and interest in and to U.S. Application No. **63/336,332** filed on **April 29, 2022** (the "**Application**") and in and to the inventions and improvements disclosed in such Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely their entire right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the **"Rights"**), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and

c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, reexaminations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of England and Wales and the parties hereby submit to the exclusive jurisdiction of the English courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

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Signed for and on behalf of
ASTRAZENECA PHARMACEUTICALS LP
Name: Jacob Oyloe
Title: Authorised Signatory

Dated: 01/21/2025

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