

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of June 13, 2024 (the “Effective Date”) by and between

Kyle David Reichl 6/4/24
Esther Cheng Yin LEE, Ariamala GOPALSAMY, Lakshmaiah GINGIPALLI, Michael SCHNEIDER, ~~Kyle REICHL~~, Paul Tomas MARCYK, Christopher Elias REIMANN and Phillip LICHTOR, all U.S. citizens c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America (“Assignors”); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership under no. 2810992, with registered office address at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America (“Assignee”)

WHEREAS

- A. Assignors have made certain inventions (the “Inventions”) in respect of which the patent applications identified in the attached Schedule have been filed (the “Applications”).
- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Applications.

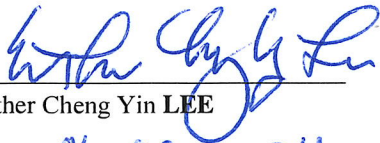
NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

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 Applications 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 Applications and any patents or applications derived therefrom; and the right to file patent applications derived from the Applications 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, re-examinations, 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.



Esther Cheng Yin **LEE**
Date 06-03-2024

Ariamala **GOPALSAMY**
Date _____



Lakshmaiah **GINGIPALLI**
Date 06-04-2024



Michael **SCHNEIDER**
Date 06/04/2024

Signed for and on behalf of
ASTRAZENECA PHARMACEUTICALS LP
Name: _____
Title: Authorised Signatory
Date _____



Kyle **REICHL** Kyle David Reichl 6/4/24
Date 6/4/2024



Paul Tomas **MARCYK**
Date 6/3/2024



Christopher Elias **REIMANN**
Date 06-03-24



Phillip **LICHTOR**
Date 03 JUNE 2024

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of June 13, 2024 (the “**Effective Date**”) by and between

Esther **LEE**, Ariamala **GOPALSAMY**, Lakshmaiah **GINGIPALLI**, Michael **SCHNEIDER**, Kyle **REICHL**, Paul Tomas **MARCYK**, Christopher Elias **REIMANN** and Phillip **LICHTOR**, all U.S. citizens c/o **ASTRAZENECA PHARMACEUTICALS LP**, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America (“**Assignors**”); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership under no. 2810992, with registered office address at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America (“**Assignee**”)

WHEREAS

- A. Assignors have made certain inventions (the “**Inventions**”) in respect of which the patent applications identified in the attached Schedule have been filed (the “**Applications**”).
- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Applications.

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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 Applications 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 Applications and any patents or applications derived therefrom; and the right to file patent applications derived from the Applications 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, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

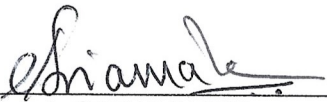
4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

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Esther **LEE**

Date _____


Ariamala **GOPALSAMY**

Date 06/02/2024

Kyle **REICHL**

Date _____

Paul Tomas **MARCYK**

Date _____

Lakshmaiah **GINGIPALLI**

Date _____

Christopher Elias **REIMANN**

Date _____

Michael **SCHNEIDER**

Date _____

Phillip **LICHTOR**

Date _____

Signed for and on behalf of
ASTRAZENECA PHARMACEUTICALS LP
Name: _____
Title: Authorised Signatory
Date _____

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Esther Cheng Yin **LEE**

Date _____

Kyle **REICHL**

Date _____

Ariamala **GOPALSAMY**

Date _____

Paul Tomas **MARCYK**

Date _____

Lakshmaiah **GINGIPALLI**

Date _____

Christopher Elias **REIMANN**

Date _____

Michael **SCHNEIDER**

Date _____

Phillip **LICHTOR**

Date _____



Signed for and on behalf of
ASTRAZENECA PHARMACEUTICALS LP
Name: Jacob Oylo
Title: Authorised Signatory
Date 6-5-2024

THE SCHEDULE

APPLICATIONS				
AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-AR-NP	Argentina	National	P240101511	13 June 2024
201313-BS-NP	Bahamas	National		
201313-WO-PCT	International	PCT	PCT/IB2024/055801	13 June 2024
201313-LB-NP	Lebanon	National		
201313-PK-NP	Pakistan	National		
201313-TW-NP	Taiwan	National	113121775	13 June 2024
201313-UY-NP	Uruguay	National	40785	13 June 2024

Priority Applications

AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-US-PSP	USA	Provisional	63/508,027	14 June 2023
201313-US-PSP-2	USA	Provisional	63/555,123	19 February 2024

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of June 13, 2024 (the “**Effective Date**”) by and between

James **SCOTT**, a British citizen c/o ASTRAZENECA UK LIMITED, 1 Francis Crick Avenue,
Cambridge Biomedical Campus, Cambridge, CB2 0AA, United Kingdom
(“**Assignors**”); and

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

- A. Assignors have made certain inventions (the “**Inventions**”) in respect of which the patent applications identified in the attached Schedule have been filed (the “**Applications**”).
- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Applications.

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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, re-examinations, 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 courts of England and Wales.

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.



James **SCOTT**

Date 04/06/24

Signed for and on behalf of
ASTRAZENECA UK LIMITED

Name: _____

Title: Authorised Signatory

Date _____

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 courts of England and Wales.

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.

James SCOTT

Date _____



Signed for and on behalf of
ASTRAZENECA UK LIMITED

Name: Andrew Cook

Title: Authorised Signatory

Date 10-JUN-2024

THE SCHEDULE

APPLICATIONS				
AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-AR-NP	Argentina	National	P240101511	13 June 2024
201313-BS-NP	Bahamas	National		
201313-WO-PCT	International	PCT	PCT/IB2024/055801	13 June 2024
201313-LB-NP	Lebanon	National		
201313-PK-NP	Pakistan	National		
201313-TW-NP	Taiwan	National	113121775	13 June 2024
201313-UY-NP	Uruguay	National	40785	13 June 2024

Priority Applications

AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-US-PSP	USA	Provisional	63/508,027	14 June 2023
201313-US-PSP-2	USA	Provisional	63/555,123	19 February 2024

9514473



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**

August 9, 2024

**THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON**

March 1, 2024

**By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office**


**Rodney Glover
Certifying Officer**



PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI64034

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Esther Cheng Yin LEE	02/20/2024
RECEIVING PARTY DATA	
Company 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: 2	
Property Type	Number
Application Number:	63508027
Application Number:	63555123
CORRESPONDENCE DATA	
Fax Number:	3013989306
<i>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.</i>	
Phone:	(301)398-0000
Email:	patents@astrazeneca.com,kortni.hayes@astrazeneca.com
Correspondent Name:	Kortni L Hayes
Address Line 1:	1 MedImmune Way
Address Line 4:	Gaithersburg, MARYLAND 20878
ATTORNEY DOCKET NUMBER:	201313-US-PSP-1 and PSP-2
NAME OF SUBMITTER:	Kortni Hayes
SIGNATURE:	Kortni Hayes
DATE SIGNED:	03/01/2024
Total Attachments: 2	
source=201313 - signed assignment - LEE#page1.tif	
source=201313 - signed assignment - LEE#page2.tif	

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of the June 14, 2023 (the "**Effective Date**") by and between

Esther Cheng Yin LEE, a U.S. citizen of c/o ASTRAZENECA PHARMACEUTICALS LP, 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America ("**Assignors**"); and

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership under no. 2810992, with registered office address at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America ("**Assignee**")

WHEREAS

- A. Assignors have made certain inventions (the "**Inventions**") in respect of which US Provisional Application No. 63/508,027 was filed on June 14, 2023 and US Provisional Application No. 63/555,123 was filed on February 19, 2024 (the "**Application(s)**").
- 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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 - 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, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

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Esther Cheng Yin LEE

Date: 02-20-2024



9914473



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**

August 9, 2024

**THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON**

March 1, 2024

**By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office**


**Rodney Glover
Certifying Officer**



PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI64082

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ASTRAZENECA PHARMACEUTICALS LP	02/26/2024
RECEIVING PARTY DATA	
Company 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: 2	
Property Type	Number
Application Number:	63508027
Application Number:	63555123
CORRESPONDENCE DATA	
Fax Number:	3013989306
<i>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.</i>	
Phone:	(301)398-0000
Email:	patents@astrazeneca.com,kortni.hayes@astrazeneca.com
Correspondent Name:	Kortni L Hayes
Address Line 1:	1 MedImmune Way
Address Line 4:	Gaithersburg, MARYLAND 20878
ATTORNEY DOCKET NUMBER:	201313-US-PSP-1 and PSP-2
NAME OF SUBMITTER:	Kortni Hayes
SIGNATURE:	Kortni Hayes
DATE SIGNED:	03/01/2024
Total Attachments: 2	
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source=201313 - signed prov. assignment - AZPLP-AZUK#page2.tif	

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- (1) ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership under no. 2810992 with registered office address at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, 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”).

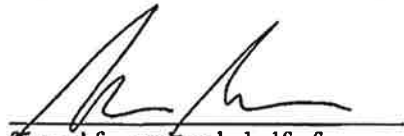
WHEREAS, Assignor has agreed to assign to Assignee the Assignor’s entire right, title and interest in and to US Provisional Application No. 63/508,027 was filed on June 14, 2023 and US Provisional Application No. 63/555,123 was filed on February 19, 2024 (the “Application”) and in and to the inventions 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 Assignor hereby assigns, 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. Assignor acknowledges that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignor waives 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, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.
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Signed for and on behalf of
ASTRAZENECA PHARMACEUTICALS LP

Name: Kwame Mensah

Title: Authorised Signatory

Date: Feb. 26, 2024



5514473



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**

August 9, 2024

**THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
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March 1, 2024

**By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office**


**Rodney Glover
Certifying Officer**



PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI64103

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ASTRAZENECA UK LIMITED	02/28/2024
RECEIVING PARTY DATA	
Company Name:	ASTRAZENECA AB
Street Address:	SE-151 85
City:	Södertälje
State/Country:	SWEDEN
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	63508027
Application Number:	63555123
CORRESPONDENCE DATA	
Fax Number:	3013989306
<i>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.</i>	
Phone:	(301)398-0000
Email:	patents@astrazeneca.com,kortni.hayes@astrazeneca.com
Correspondent Name:	Kortni L Hayes
Address Line 1:	1 MedImmune Way
Address Line 4:	Gaithersburg, MARYLAND 20878
ATTORNEY DOCKET NUMBER:	201313-US-PSP-1 and PSP-2
NAME OF SUBMITTER:	Kortni Hayes
SIGNATURE:	Kortni Hayes
DATE SIGNED:	03/01/2024
Total Attachments: 2	
source=201313 - signed prov. assignment - UK-AB#page1.tif	
source=201313 - signed prov. assignment - UK-AB#page2.tif	

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of June 14, 2023 (the "Effective Date") by and between

- (1) 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 ("Assignor"); and
- (2) ASTRAZENECA AB, a company incorporated in Sweden under no. 556011-7482 with registered office address at SE-151 85 Södertälje, Sweden ("Assignee").

WHEREAS, Assignor has agreed to assign to Assignee the Assignor's legal right, legal title and legal interest in and to US Provisional Application No. 63/508,027 was filed on June 14, 2023 and US Provisional Application No. 63/555,123 was filed on February 19, 2024 (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 Assignor hereby assigns, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their legal right, legal title and legal 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. Assignor acknowledges that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignor waives any right of first refusal that they may have for acquiring such Rights.
2. Assignor agrees 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 agrees 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, re-examinations, 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 courts of England and Wales.

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 UK LIMITED
Name: Andrew Cook
Title: Authorised Signatory

Date: 28 February 2024



ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of June 13, 2024 (the “**Effective Date**”) by and between

ASTRAZENECA PHARMACEUTICALS LP, a Delaware limited partnership under no. 2810992, with registered office address at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America (“**Assignor**”); and

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, title and interest in and to the patent applications identified in the attached Schedule (the “**Applications**”) and in and to the inventions and improvements disclosed in such Applications.

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 Assignor hereby assigns, 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 Applications 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 Applications and any patents or applications derived therefrom; and the right to file patent applications derived from the Applications 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. Assignor acknowledges that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignor waives 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, re-examinations, 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: Jacob Oyloe
Title: Authorised Signatory
Date 6-5-2024

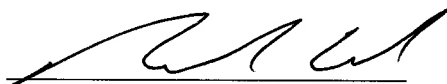
Signed for and on behalf of
ASTRAZENECA UK LIMITED
Name: _____
Title: Authorised Signatory
Date _____

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

Date _____



Signed for and on behalf of
ASTRAZENECA UK LIMITED
Name: Andrew Cook
Title: Authorised Signatory

Date 10-JUN-2024

THE SCHEDULE

APPLICATIONS				
AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-AR-NP	Argentina	National	P240101511	13 June 2024
201313-BS-NP	Bahamas	National		
201313-WO-PCT	International	PCT	PCT/IB2024/055801	13 June 2024
201313-LB-NP	Lebanon	National		
201313-PK-NP	Pakistan	National		
201313-TW-NP	Taiwan	National	113121775	13 June 2024
201313-UY-NP	Uruguay	National	40785	13 June 2024

Priority Applications

AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-US-PSP	USA	Provisional	63/508,027	14 June 2023
201313-US-PSP-2	USA	Provisional	63/555,123	19 February 2024

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of June 13, 2024 (the “Effective Date”) by and between

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 (“Assignor”); and

ASTRAZENECA AB, a company incorporated in Sweden under no. 556011-7482, with registered office address at SE-151 85 Södertälje, Sweden (“Assignee”).

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1. For good and valuable consideration made by Assignee to Assignor, receipt of which is hereby acknowledged, the Assignor hereby assigns, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their legal right, legal title and legal interest in and to the inventions, the Applications 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 Applications and any patents or applications derived therefrom; and the right to file patent applications derived from the Applications 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. Assignor acknowledges that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignor waives 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, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.
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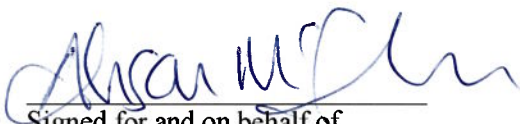


Signed for and on behalf of
ASTRAZENECA UK LIMITED

Name: Andrew Cook

Title: Authorised Signatory

Date 10-JUN-2024



Signed for and on behalf of
ASTRAZENECA AB

Name: Alison McGhee

Title: Authorised Signatory

Date 11 JUNE 2024

THE SCHEDULE

APPLICATIONS				
AstraZeneca Case No:	Country	Filing Type	Application No. and/or Title of Invention	Filing Date
201313-AR-NP	Argentina	National		
201313-BS-NP	Bahamas	National		
201313-WO-PCT	International	PCT		
201313-LB-NP	Lebanon	National		
201313-PK-NP	Pakistan	National		
201313-TW-NP	Taiwan	National		
201313-UY-NP	Uruguay	National		
201313-US-PCT	USA	National		

Priority Applications

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