



UNITED STATES PATENT AND TRADEMARK OFFICE

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

OCTOBER 6, 2022

PTAS

SAMANTHA CASE
2716 SOUTH STREET
15TH FLOOR
PHILADELPHIA, PA 19146

507528793

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: 10/05/2022

REEL/FRAME: 061321/0300
NUMBER OF PAGES: 9

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

DOCKET NUMBER: 2022-051P

ASSIGNOR:
DAVIDSON, BEVERLY

DOC DATE: 09/22/2022

ASSIGNOR:
TECEDOR, LUIS

DOC DATE: 08/30/2022

ASSIGNOR:
RANUM, PAUL

DOC DATE: 09/01/2022

ASSIGNOR:
LEIB, DAVID

DOC DATE: 08/31/2022

ASSIGNOR:
KEISER, MEGAN

DOC DATE: 08/25/2022

ASSIGNOR:
CHEN, YONGHONG

DOC DATE: 08/30/2022

ASSIGNEE:

THE CHILDREN'S HOSPITAL OF
PHILADELPHIA
3401 CIVIC CENTER BOULEVARD
PHILADELPHIA, PENNSYLVANIA 19104

APPLICATION NUMBER: 63340823

FILING DATE: 05/11/2022

PATENT NUMBER:

ISSUE DATE:

TITLE: ADENO-ASSOCIATED VIRAL VECTORS FOR TARGETING DEEP BRAIN
STRUCTURES

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT OF INVENTION

WHEREAS, WE, Beverly Davidson, Luis Tecedor, Paul Ranum, David Leib, Megan Keiser, and Yonghong Chen, hereafter referred to as INVENTORS, have made a certain new and useful invention in Adeno-Associated Viral Vectors for Targeting Deep Brain Structures and have filed an application Serial No. 63/340,823 for Letters Patent of the United States based thereon on May 11, 2022.

WHEREAS, WE, the INVENTORS, are associated with THE CHILDREN'S HOSPITAL OF PHILADELPHIA as employees of THE CHILDREN'S HOSPITAL OF PHILADELPHIA or were employees at the time of the conceived invention at THE CHILDREN'S HOSPITAL OF PHILADELPHIA.

WHEREAS, THE CHILDREN'S HOSPITAL OF PHILADELPHIA, a non-profit Corporation, organized and existing under the laws of the Commonwealth of Pennsylvania and having an office and place of business at 3401 Civic Center Boulevard, Philadelphia, Pennsylvania 19104, is desirous of acquiring the entire right, title and interest in and to the invention and all improvements thereon which may be made, conceived or acquired by INVENTORS, during the course of their association with THE CHILDREN'S HOSPITAL OF PHILADELPHIA, in and throughout the United States, its territories and all countries foreign thereto, and in and to said application for Letters Patent, and in and to any and all utility patent applications and Letters Patents of the United States and all countries foreign thereto which have been granted or may be granted on said invention or any part thereof, including the right to claim priority and assignment of all rights under the provisions of the International Convention.

NOW, THEREFORE, IN CONSIDERATION of one or more of the following: (i) my continued employment at THE CHILDREN'S HOSPITAL OF PHILADELPHIA including its Research Institute (collectively, "THE CHILDREN'S HOSPITAL OF PHILADELPHIA"); (ii) my continued participation in research at THE CHILDREN'S HOSPITAL OF PHILADELPHIA; (iii) my continued access to THE CHILDREN'S HOSPITAL OF PHILADELPHIA facilities, funds, and other resources; and/or (iv) my continued opportunity to share in royalties and other inventor/author rights outlined in THE CHILDREN'S HOSPITAL OF PHILADELPHIA's current "Patent Policy" (the "Patent Policy"), and intending to be legally bound, hereby agree to be legally bound by the Patent Policy and all of its terms conditions, wherein the receipt of such consideration is hereby acknowledged; INVENTORS, by these presents do hereby sell, assign and transfer unto the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA the entire right, title, and interest in and throughout the United States, its territories and all countries foreign thereto in and to said invention, in and to said application for Letters Patent and any and all utility patent applications and Letters Patents and extensions thereof, of the United States and countries foreign thereto which have been or may be granted on said invention or any part thereof and any international priority rights associated therewith; including the right to claim priority and assignment of all rights under the provisions of the International Convention.

TO BE HELD AND ENJOYED by the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives and assigns to the full ends of the terms United States Patent Application No. 63/340,823 for which said Letters Patent, or any of them, have been granted as fully and entirely as the same would have been held and enjoyed by INVENTORS, had no sale and assignment of said interest been made; and INVENTORS, do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patents which may be granted upon the said application above referred to, or any of them or upon said invention or any part thereof, to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, and INVENTORS, hereby agree for myself, my heirs, executors and administrators, to execute without further consideration, any further legal documents and any further assignments and any releases, reissues, renewals or other application for Letters Patents that may be deemed necessary by THE CHILDREN'S HOSPITAL OF PHILADELPHIA, to fully secure to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, its interest as aforesaid in and to said invention or any part thereof and in and to several Letters Patent or any of them.

INVENTORS, do hereby covenant for their self and their legal representatives, and agree with THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives, that INVENTORS, has granted no license to make or sell the said invention, that prior to the execution of this deed our right, title and interest in the said invention has not been encumbered, that INVENTORS, then had good right and title in and to the invention and that INVENTORS, have not executed and will not execute any instrument in conflict therewith.

IN WITNESS WHEREOF, I, Beverly Davidson, intending to be legally bound, have hereunto affixed my hand and seal this day 22 of September 2022.

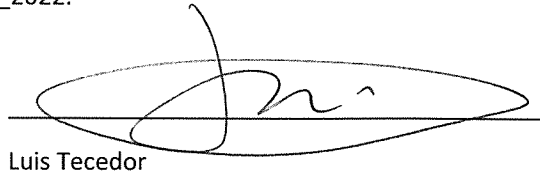

Beverly Davidson

Witnessed by: Maria

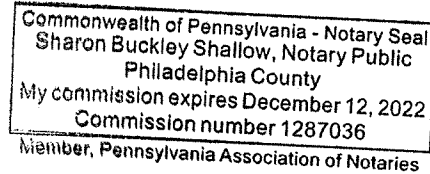
Name: NATARA AQUINO LOPEZ

Address: 3501 Civic Center Boulevard, 5th Floor CTRB, Philadelphia 19104

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day 30 of August 2022.


Luis Tecedor

Witnessed by: Sharon Buckley Shallow
Name: Sharon Buckley Shallow
Address: 3501 Civic Center Blvd.
Phila, PA 19104



IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Paul Ranum

Witnessed by: _____
Name: _____
Address: _____

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

David Leib

Witnessed by: _____
Name: _____
Address: _____

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

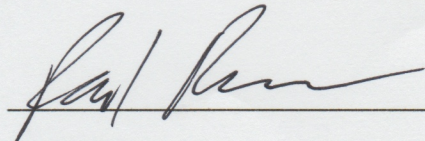
Luis Tecedor

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day 01 of September 2022.



Paul Ranum

Witnessed by: Ana Kenzie

Name: Susan Kenzie

Address: 1752 Juliet Ave
St. Paul, MN 55105

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

David Leib

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Luis Tecedor

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Paul Ranum

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day 31 of August 2022.

David Leib
David Leib

Witnessed by: Malay Mathur

Name:

MALAY MATHUR

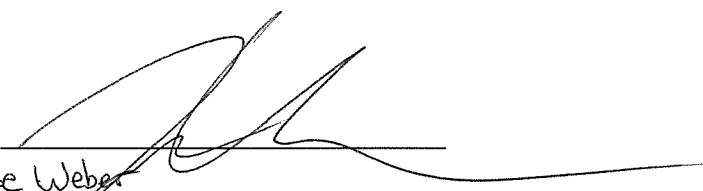
Address:

1019 S 19th St
Philadelphia PA 19146

IN WITNESS WHEREOF, I, Megan Keiser, intending to be legally bound, have hereunto affixed my hand and seal this day 25 of August 2022.



Megan Keiser

Witnessed by: 

Name: Jesse Weber

Address: 1919 Market St., Apt 2111, Philadelphia, PA 19103

IN WITNESS WHEREOF, I, Yonghong Chen, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Yonghong Chen

Witnessed by: _____

Name: _____

Address: _____

IN WITNESS WHEREOF, I, Megan Keiser, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Megan Keiser

Witnessed by: _____

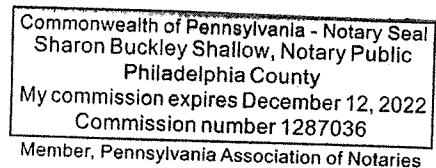
Name:

Address:

IN WITNESS WHEREOF, I, Yonghong Chen, intending to be legally bound, have hereunto affixed my hand and seal this day 30 of August 2022.

Yong Hong Chen
Yonghong Chen

Witnessed by: Sharon Buckley Shallow
Name: Sharon Buckley Shallow
Address: 3501 Civic Center Blvd.
Philadelphia, PA 19104





UNITED STATES PATENT AND TRADEMARK OFFICE

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

OCTOBER 6, 2022

PTAS

SAMANTHA CASE
2716 SOUTH STREET
15TH FLOOR
PHILADELPHIA, PA 19146

507528829

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RECORDATION DATE: 10/05/2022

REEL/FRAME: 061321/0473
NUMBER OF PAGES: 9

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

DOCKET NUMBER: 2022-051P2

ASSIGNOR:
DAVIDSON, BEVERLY

DOC DATE: 09/22/2022

ASSIGNOR:
TECEDOR, LUIS

DOC DATE: 08/30/2022

ASSIGNOR:
RANUM, PAUL

DOC DATE: 09/01/2022

ASSIGNOR:
LEIB, DAVID

DOC DATE: 08/31/2022

ASSIGNOR:
KEISER, MEGAN

DOC DATE: 08/25/2022

ASSIGNOR:
CHEN, YONGHONG

DOC DATE: 08/30/2022

ASSIGNEE:

THE CHILDREN'S HOSPITAL OF
PHILADELPHIA
3401 CIVIC CENTER BOULEVARD
PHILADELPHIA, PENNSYLVANIA 19104

APPLICATION NUMBER: 63342324

FILING DATE: 05/16/2022

PATENT NUMBER:

ISSUE DATE:

TITLE: ADENO-ASSOCIATED VIRAL VECTORS FOR TARGETING DEEP BRAIN
STRUCTURES

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT OF INVENTION

WHEREAS, WE, Beverly Davidson, Luis Tecedor, Paul Ranum, David Leib, Megan Keiser, and Yonghong Chen, hereafter referred to as INVENTORS, have made a certain new and useful invention in Adeno-Associated Viral Vectors for Targeting Deep Brain Structures and have filed an application Serial No. 63/342,324 for Letters Patent of the United States based thereon on May 16, 2022.

WHEREAS, WE, the INVENTORS, are associated with THE CHILDREN'S HOSPITAL OF PHILADELPHIA as employees of THE CHILDREN'S HOSPITAL OF PHILADELPHIA or were employees at the time of the conceived invention at THE CHILDREN'S HOSPITAL OF PHILADELPHIA.

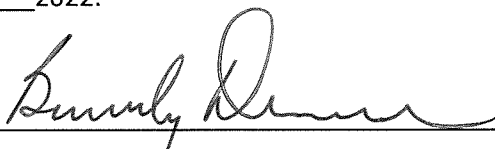
WHEREAS, THE CHILDREN'S HOSPITAL OF PHILADELPHIA, a non-profit Corporation, organized and existing under the laws of the Commonwealth of Pennsylvania and having an office and place of business at 3401 Civic Center Boulevard, Philadelphia, Pennsylvania 19104, is desirous of acquiring the entire right, title and interest in and to the invention and all improvements thereon which may be made, conceived or acquired by INVENTORS, during the course of their association with THE CHILDREN'S HOSPITAL OF PHILADELPHIA, in and throughout the United States, its territories and all countries foreign thereto, and in and to said application for Letters Patent, and in and to any and all utility patent applications and Letters Patents of the United States and all countries foreign thereto which have been granted or may be granted on said invention or any part thereof, including the right to claim priority and assignment of all rights under the provisions of the International Convention.

NOW, THEREFORE, IN CONSIDERATION of one or more of the following: (i) my continued employment at THE CHILDREN'S HOSPITAL OF PHILADELPHIA including its Research Institute (collectively, "THE CHILDREN'S HOSPITAL OF PHILADELPHIA"); (ii) my continued participation in research at THE CHILDREN'S HOSPITAL OF PHILADELPHIA; (iii) my continued access to THE CHILDREN'S HOSPITAL OF PHILADELPHIA facilities, funds, and other resources; and/or (iv) my continued opportunity to share in royalties and other inventor/author rights outlined in THE CHILDREN'S HOSPITAL OF PHILADELPHIA's current "Patent Policy" (the "Patent Policy"), and intending to be legally bound, hereby agree to be legally bound by the Patent Policy and all of its terms conditions, wherein the receipt of such consideration is hereby acknowledged; INVENTORS, by these presents do hereby sell, assign and transfer unto the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA the entire right, title, and interest in and throughout the United States, its territories and all countries foreign thereto in and to said invention, in and to said application for Letters Patent and any and all utility patent applications and Letters Patents and extensions thereof, of the United States and countries foreign thereto which have been or may be granted on said invention or any part thereof and any international priority rights associated therewith; including the right to claim priority and assignment of all rights under the provisions of the International Convention.

TO BE HELD AND ENJOYED by the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives and assigns to the full ends of the terms United States Patent Application No. 63/342,324 for which said Letters Patent, or any of them, have been granted as fully and entirely as the same would have been held and enjoyed by INVENTORS, had no sale and assignment of said interest been made; and INVENTORS, do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patents which may be granted upon the said application above referred to, or any of them or upon said invention or any part thereof, to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, and INVENTORS, hereby agree for myself, my heirs, executors and administrators, to execute without further consideration, any further legal documents and any further assignments and any releases, reissues, renewals or other application for Letters Patents that may be deemed necessary by THE CHILDREN'S HOSPITAL OF PHILADELPHIA, to fully secure to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, its interest as aforesaid in and to said invention or any part thereof and in and to several Letters Patent or any of them.

INVENTORS, do hereby covenant for their self and their legal representatives, and agree with THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives, that INVENTORS, has granted no license to make or sell the said invention, that prior to the execution of this deed our right, title and interest in the said invention has not been encumbered, that INVENTORS, then had good right and title in and to the invention and that INVENTORS, have not executed and will not execute any instrument in conflict therewith.

IN WITNESS WHEREOF, I, Beverly Davidson, intending to be legally bound, have hereunto affixed my hand and seal this day 22 of September 2022.


Beverly Davidson

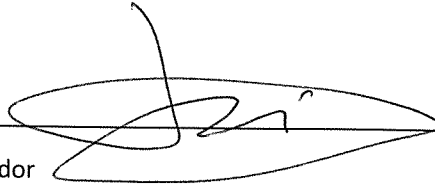
Witnessed by: 

Name: NAIARA AQUINO LOPEZ

Address: 3301 Civic Center Boulevard, 5th Floor CTB, Philadelphia PA 19104

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day 30 of August 2022.

Luis Tecedor



Witnessed by:

Name: Sharon Buckley Shallow

Address: 3501 Civic Center Blvd
Philadelphia, PA 19104

Commonwealth of Pennsylvania - Notary Seal
Sharon Buckley Shallow, Notary Public
Philadelphia County
My commission expires December 12, 2022
Commission number 1287036
Member, Pennsylvania Association of Notaries

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Paul Ranum

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

David Leib

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

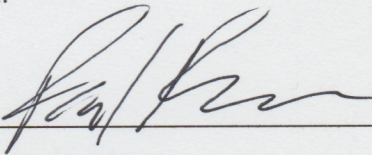
Luis Tecedor

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day 01 of September 2022.



Paul Ranum

Witnessed by: Annan Kenzie

Name:

Address: Susan Kenzie
1752 Juliet Ave
St. Paul, MN 55105

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

David Leib

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Luis Tecedor

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Paul Ranum

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day 31 of August 2022.



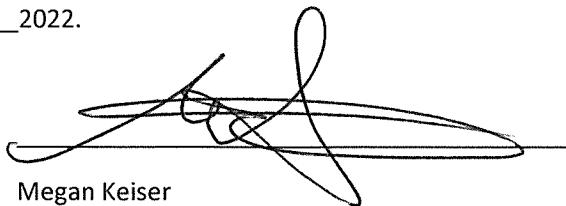
David Leib

Witnessed by:  _____

Name: MALA MATHUR

Address: 1019 S 19th St
Philadelphia PA 19146

IN WITNESS WHEREOF, I, Megan Keiser, intending to be legally bound, have hereunto affixed my hand and seal this day 25 of August 2022.



Megan Keiser

Witnessed by: _____

Name:

Address:

Jesse Weber
1919 Market St., Apt 2111, Philadelphia, PA 19103

IN WITNESS WHEREOF, I, Yonghong Chen, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Yonghong Chen

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Megan Keiser, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2022.

Megan Keiser

Witnessed by: _____

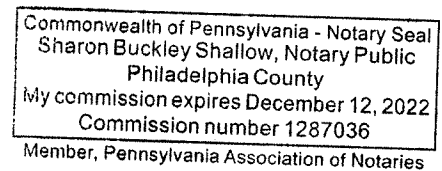
Name:

Address:

IN WITNESS WHEREOF, I, Yonghong Chen, intending to be legally bound, have hereunto affixed my hand and seal this day 30 of August 2022.

Yong Hong Chen
Yonghong Chen

Witnessed by: Sharon Buckley Shallow
Name: Sharon Buckley Shallow
Address: 3501 Civic Center Boulevard
Philadelphia, PA 19104





UNITED STATES PATENT AND TRADEMARK OFFICE

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

JANUARY 5, 2024

PTAS

SAMANTHA CASE
2716 SOUTH STREET
15TH FLOOR
PHILADELPHIA, PA 19146

508315156

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RECORDATION DATE: 01/04/2024

REEL/FRAME: 066016/0503
NUMBER OF PAGES: 9

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

DOCKET NUMBER: 2022-051PCT

ASSIGNOR:
DAVIDSON, BEVERLY

DOC DATE: 10/02/2023

ASSIGNOR:
TECEDOR, LUIS

DOC DATE: 10/19/2023

ASSIGNOR:
RANUM, PAUL

DOC DATE: 10/16/2023

ASSIGNOR:
LEIB, DAVID

DOC DATE: 01/03/2024

ASSIGNOR:
KEISER, MEGAN

DOC DATE: 09/24/2023

ASSIGNOR:
CHEN, YONGHONG

DOC DATE: 09/18/2023

ASSIGNEE:
THE CHILDREN'S HOSPITAL OF
PHILADELPHIA
3401 CIVIC CENTER BOULEVARD
PHILADELPHIA, PENNSYLVANIA 19104

APPLICATION NUMBER:	FILING DATE: 05/11/2023
PATENT NUMBER:	ISSUE DATE:
PCT NUMBER: US2023021905	
TITLE: ADENO-ASSOCIATED VIRAL VECTORS FOR TARGETING DEEP BRAIN STRUCTURES	

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT OF INVENTION

WHEREAS, WE, Beverly Davidson, Luis Tecedor, Paul Ranum, David Leib, Megan Keiser, and Yonghong Chen, hereafter referred to as INVENTORS, have made a certain new and useful invention in Adeno-Associated Viral Vectors for Targeting Deep Brain Structures and have filed an application Serial No. PCT/US2023/021905 for Letters Patent of the United States based thereon on May 11, 2023 which claims priority to United States Provisional Application No. 63/340,823 filed May 11, 2022 and United States Provisional Application No. 63/342,324 filed May 16, 2022.

WHEREAS, WE, the INVENTORS, are associated with THE CHILDREN'S HOSPITAL OF PHILADELPHIA as employees of THE CHILDREN'S HOSPITAL OF PHILADELPHIA or were employees at the time of the conceived invention at THE CHILDREN'S HOSPITAL OF PHILADELPHIA.

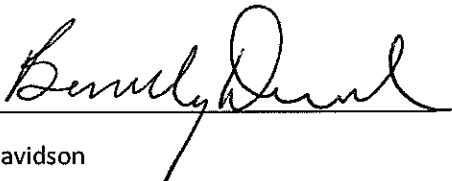
WHEREAS, THE CHILDREN'S HOSPITAL OF PHILADELPHIA, a non-profit Corporation, organized and existing under the laws of the Commonwealth of Pennsylvania and having an office and place of business at 3401 Civic Center Boulevard, Philadelphia, Pennsylvania 19104, is desirous of acquiring the entire right, title and interest in and to the invention and all improvements thereon which may be made, conceived or acquired by INVENTORS, during the course of their association with THE CHILDREN'S HOSPITAL OF PHILADELPHIA, in and throughout the United States, its territories and all countries foreign thereto, and in and to said application for Letters Patent, and in and to any and all utility patent applications and Letters Patents of the United States and all countries foreign thereto which have been granted or may be granted on said invention or any part thereof, including the right to claim priority and assignment of all rights under the provisions of the International Convention.

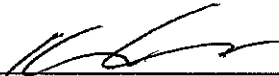
NOW, THEREFORE, IN CONSIDERATION of one or more of the following: (i) my continued employment at THE CHILDREN'S HOSPITAL OF PHILADELPHIA including its Research Institute (collectively, "THE CHILDREN'S HOSPITAL OF PHILADELPHIA"); (ii) my continued participation in research at THE CHILDREN'S HOSPITAL OF PHILADELPHIA; (iii) my continued access to THE CHILDREN'S HOSPITAL OF PHILADELPHIA facilities, funds, and other resources; and/or (iv) my continued opportunity to share in royalties and other inventor/author rights outlined in THE CHILDREN'S HOSPITAL OF PHILADELPHIA's current "Patent Policy" (the "Patent Policy"), and intending to be legally bound, hereby agree to be legally bound by the Patent Policy and all of its terms conditions, wherein the receipt of such consideration is hereby acknowledged; INVENTORS, by these presents do hereby sell, assign and transfer unto the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA the entire right, title, and interest in and throughout the United States, its territories and all countries foreign thereto in and to said invention, in and to said application for Letters Patent and any and all utility patent applications and Letters Patents and extensions thereof, of the United States and countries foreign thereto which have been or may be granted on said invention or any part thereof and any international priority rights associated therewith; including the right to claim priority and assignment of all rights under the provisions of the International Convention.

TO BE HELD AND ENJOYED by the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives and assigns to the full ends of the terms United States Patent Application No. PCT/US2023/021905 for which said Letters Patent, or any of them, have been granted as fully and entirely as the same would have been held and enjoyed by INVENTORS, had no sale and assignment of said interest been made; and INVENTORS, do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patents which may be granted upon the said application above referred to, or any of them or upon said invention or any part thereof, to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, and INVENTORS, hereby agree for myself, my heirs, executors and administrators, to execute without further consideration, any further legal documents and any further assignments and any releases, reissues, renewals or other application for Letters Patents that may be deemed necessary by THE CHILDREN'S HOSPITAL OF PHILADELPHIA, to fully secure to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, its interest as aforesaid in and to said invention or any part thereof and in and to several Letters Patent or any of them.

INVENTORS, do hereby covenant for their self and their legal representatives, and agree with THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives, that INVENTORS, has granted no license to make or sell the said invention, that prior to the execution of this deed our right, title and interest in the said invention has not been encumbered, that INVENTORS, then had good right and title in and to the invention and that INVENTORS, have not executed and will not execute any instrument in conflict therewith.

IN WITNESS WHEREOF, I, Beverly Davidson, intending to be legally bound, have hereunto affixed my hand and seal this day 2 of Oct 2023.


Beverly Davidson

Witnessed by: 

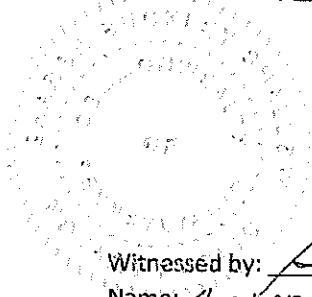
Name:

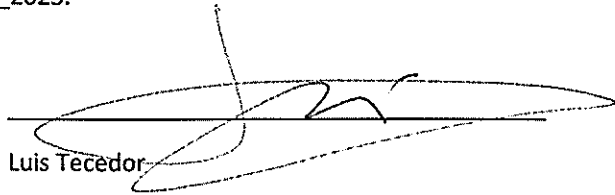
Kevin Glenn

Address:

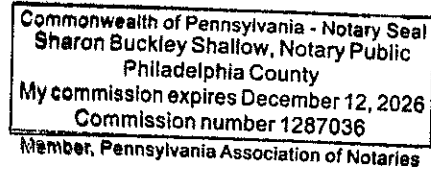
3501 Civic Center Blvd.
Philadelphia, Pa 19104

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day 19 of October 2023.




Luis Tecedor

Witnessed by: Sharon Buckley Shallow
Name: Sharon Buckley Shallow
Address: 3501 CNic Center Boulevard
Philadelphia, PA 19104



IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

Paul Ranum

Witnessed by: _____
Name: _____
Address: _____

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

David Leib

Witnessed by: _____
Name: _____
Address: _____

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

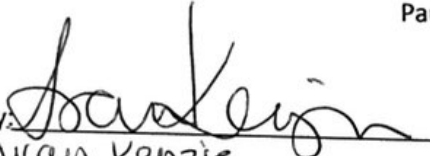
Luis Tecedor

Witnessed by: _____
Name: _____
Address: _____

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day 16 of October 2023.



Paul Ranum

Witnessed by: 
Name: Susan Kenzie
Address: 1752 Juliet Ave St. Paul MN 55105

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

David Leib

Witnessed by: _____
Name: _____
Address: _____

IN WITNESS WHEREOF, I, Luis Tecedor, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

Luis Tecedor

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Paul Ranum, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

Paul Ranum

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, David Leib, intending to be legally bound, have hereunto affixed my hand and seal this day 3 of January 2024.

David Leib

David Leib

Witnessed by: Noah Smith

Name: Noah Smith

Address: 2050 Frankford Ave
Apt D
Philadelphia, PA 19125³

IN WITNESS WHEREOF, I, Megan Keiser, intending to be legally bound, have hereunto affixed my hand and seal this day 24 of September 2023.


Megan Keiser

Witnessed by:

Name:

Address:


Robert M. Keiser III
5705 Saint George Ave., Westerville, OH 43082

IN WITNESS WHEREOF, I, Yonghong Chen, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

Yonghong Chen

Witnessed by: _____

Name:

Address:

IN WITNESS WHEREOF, I, Megan Keiser, intending to be legally bound, have hereunto affixed my hand and seal this day ____ of _____ 2023.

Megan Keiser

Witnessed by: _____
Name:
Address:

IN WITNESS WHEREOF, I, Yonghong Chen, intending to be legally bound, have hereunto affixed my hand and seal this day 18 of September 2023.

Yonghong Chen
Yonghong Chen

Witnessed by: Xinchang Zhen
Name: Xinchang Zhen
Address: 1318 W Wynnwood Rd.
Wynnwood, PA 19096