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FEBRUARY 24, 2022

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0879
NUMBER OF PAGES: 4

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MACEK, THOMAS A.

DOC DATE: 02/10/2022

ASSIGNEE:

TAKEDA DEVELOPMENT CENTER AMERICAS,
INC.
95 HAYDEN AVENUE
LEXINGTON, MASSACHUSETTS 02421

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63264747

FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

ASSIGNMENT RECORDATION BRANCH

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CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>THOMAS A. MACEK</td><td>02/10/2022</td></tr></tbody></table>	Name	Execution Date	THOMAS A. MACEK	02/10/2022							
Name	Execution Date										
THOMAS A. MACEK	02/10/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA DEVELOPMENT CENTER AMERICAS, INC.</td></tr><tr><td>Street Address:</td><td>95 HAYDEN AVENUE</td></tr><tr><td>City:</td><td>LEXINGTON</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02421</td></tr></table>	Name:	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	Street Address:	95 HAYDEN AVENUE	City:	LEXINGTON	State/Country:	MASSACHUSETTS	Postal Code:	02421	
Name:	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.										
Street Address:	95 HAYDEN AVENUE										
City:	LEXINGTON										
State/Country:	MASSACHUSETTS										
Postal Code:	02421										
PROPERTY NUMBERS Total: 4											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>63200327</td></tr><tr><td>Application Number:</td><td>63229945</td></tr><tr><td>Application Number:</td><td>63264747</td></tr><tr><td>Application Number:</td><td>63265628</td></tr></tbody></table>	Property Type	Number	Application Number:	63200327	Application Number:	63229945	Application Number:	63264747	Application Number:	63265628	
Property Type	Number										
Application Number:	63200327										
Application Number:	63229945										
Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=ASSIGNMENT_Macek to Takeda (003)#page1.tif source=ASSIGNMENT_Macek to Takeda (003)#page2.tif source=ASSIGNMENT_Macek to Takeda (003)#page3.tif
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SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Takeda Development Center Americas, Inc.**, a corporation of the United States whose post office address is 95 Hayden Avenue, Lexington MA 02421, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)

DocuSigned by:

Thomas A. Macek

Signature

Thomas A. Macek

2/10/2022

Execution Date

SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Takeda Development Center Americas, Inc.

Signature:



Printed Name:

CONSTANCE P. YOUNG

Corporate Title:

IP REGIONAL VP AD

Date:

Feb 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

PATHI JAGANNATHAM, NAGA VENKATESHA
MURTHY

DOC DATE: 02/04/2022

ASSIGNOR:

HAREL, BRIAN

DOC DATE: 02/04/2022

ASSIGNOR:

DEMARTINIS, NICHOLAS

DOC DATE: 02/04/2022

ASSIGNOR:

DUNAYEVICH, EDUARDO

DOC DATE: 02/05/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

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CORRESPONDENCE DATA**Fax Number:** (202)408-4400**Email:** charlene.woods@finnegan.com*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.***Correspondent Name:** FINNEGAN**Address Line 1:** 901 NEW YORK AVENUE, N.W.**Address Line 4:** WASHINGTON, D.C. 20001**ATTORNEY DOCKET
NUMBER:**

15496.6007-00, 01, 02, 03

NAME OF SUBMITTER:

CHARLENE WOODS

Signature:

/Charlene Woods/

Date:

02/22/2022

Total Attachments: 6

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ASSIGNMENT

WHEREAS We, the below-named inventors (hereinafter referred to as Assignors), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)



Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

04 February 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

IN TESTIMONY WHEREOF, We have hereunto set our hands.

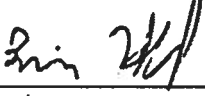
ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)



Signature

Brian HAREL

February 4, 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

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Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

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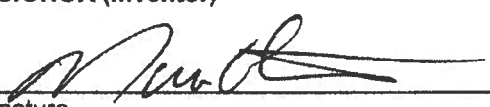
Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature


Nicholas DEMARTINIS

Execution Date

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ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

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ASSIGNOR (Inventor)

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Naga Venkatesha Murthy PATHI JAGANNATHAM

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Nicholas DEMARTINIS

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February 5, 2022

Execution Date

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Millennium Pharmaceuticals, Inc.

Signature: 

Printed Name: Constance Yeung

Corporate Title: Vice President and IP Region Head

Date: February 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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ASSIGNOR:

MILLENNIUM PHARMACEUTICALS, INC.

DOC DATE: 02/17/2022

ASSIGNEE:

TAKEDA PHARMACEUTICAL COMPANY
LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
OSAKA, JAPAN 540-8645

APPLICATION NUMBER: 63200327

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<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
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Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20010

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page1.tif source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page2.tif source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page3.tif
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RECEIPT INFORMATION	
EPAS ID:	PAT7187506
Receipt Date:	02/22/2022

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ASSIGNMENT

By this document and in accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of March 31, 2021 (the "Agreement"), made by and between Millennium Pharmaceuticals, Inc., a company organized under the laws of United States, having a place of business at 40 Landsdowne Street, Cambridge, MA 02139, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR hereby assigns and confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of this agreement and agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby assigns and confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

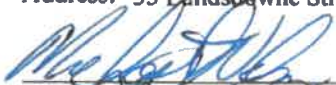
Date: February 17, 2022


Assignor: (Name) Constance Young
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022

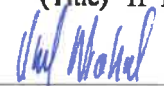

Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str.2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

PTAS

FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

507140723

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

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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: 02/22/2022

REEL/FRAME: 059063/0063
NUMBER OF PAGES: 5

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

TAKEDA DEVELOPMENT CENTER AMERICAS, INC. DOC DATE: 02/17/2022

ASSIGNEE:

TAKEDA PHARMACEUTICAL COMPANY
LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
OSAKA, JAPAN 540-8645

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63264747

FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

ASSIGNMENT RECORDATION BRANCH

PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>TAKEDA DEVELOPMENT CENTER AMERICAS, INC.</td><td>02/17/2022</td></tr></tbody></table>	Name	Execution Date	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022							
Name	Execution Date										
TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED										
Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU										
City:	OSAKA										
State/Country:	JAPAN										
Postal Code:	540-8645										
PROPERTY NUMBERS Total: 4											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>63200327</td></tr><tr><td>Application Number:</td><td>63229945</td></tr><tr><td>Application Number:</td><td>63264747</td></tr><tr><td>Application Number:</td><td>63265628</td></tr></tbody></table>	Property Type	Number	Application Number:	63200327	Application Number:	63229945	Application Number:	63264747	Application Number:	63265628	
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Application Number:	63200327										
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CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3	
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RECEIPT INFORMATION	
EPAS ID:	PAT7187567
Receipt Date:	02/22/2022

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ASSIGNMENT

In accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of April 1, 2020 (the "Agreement"), made by and between Takeda Development Center Americas, Inc., a company organized under the laws of United States, having a place of business at 95 Hayden Avenue, Lexington MA 02421, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date: February 17, 2022


Assignor: (Name) Constance Yeung
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022


Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

PTAS

FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

507140683

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

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0879
NUMBER OF PAGES: 4

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MACEK, THOMAS A.

DOC DATE: 02/10/2022

ASSIGNEE:

TAKEDA DEVELOPMENT CENTER AMERICAS,
INC.
95 HAYDEN AVENUE
LEXINGTON, MASSACHUSETTS 02421

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63264747

FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

ASSIGNMENT RECORDATION BRANCH

PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>THOMAS A. MACEK</td><td>02/10/2022</td></tr></tbody></table>	Name	Execution Date	THOMAS A. MACEK	02/10/2022							
Name	Execution Date										
THOMAS A. MACEK	02/10/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA DEVELOPMENT CENTER AMERICAS, INC.</td></tr><tr><td>Street Address:</td><td>95 HAYDEN AVENUE</td></tr><tr><td>City:</td><td>LEXINGTON</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02421</td></tr></table>	Name:	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	Street Address:	95 HAYDEN AVENUE	City:	LEXINGTON	State/Country:	MASSACHUSETTS	Postal Code:	02421	
Name:	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.										
Street Address:	95 HAYDEN AVENUE										
City:	LEXINGTON										
State/Country:	MASSACHUSETTS										
Postal Code:	02421										
PROPERTY NUMBERS Total: 4											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>63200327</td></tr><tr><td>Application Number:</td><td>63229945</td></tr><tr><td>Application Number:</td><td>63264747</td></tr><tr><td>Application Number:</td><td>63265628</td></tr></tbody></table>	Property Type	Number	Application Number:	63200327	Application Number:	63229945	Application Number:	63264747	Application Number:	63265628	
Property Type	Number										
Application Number:	63200327										
Application Number:	63229945										
Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=ASSIGNMENT_Macek to Takeda (003)#page1.tif source=ASSIGNMENT_Macek to Takeda (003)#page2.tif source=ASSIGNMENT_Macek to Takeda (003)#page3.tif
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SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Takeda Development Center Americas, Inc.**, a corporation of the United States whose post office address is 95 Hayden Avenue, Lexington MA 02421, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)

DocuSigned by:

Thomas A. Macek

Signature

Thomas A. Macek

2/10/2022

Execution Date

SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Takeda Development Center Americas, Inc.

Signature:



Printed Name:

CONSTANCE F. YENIG

Corporate Title:

IP REGIONAL VP AD

Date:

Feb 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

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901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

507140602

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0522
NUMBER OF PAGES: 8

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

PATHI JAGANNATHAM, NAGA VENKATESHA
MURTHY

DOC DATE: 02/04/2022

ASSIGNOR:

HAREL, BRIAN

DOC DATE: 02/04/2022

ASSIGNOR:

DEMARTINIS, NICHOLAS

DOC DATE: 02/04/2022

ASSIGNOR:

DUNAYEVICH, EDUARDO

DOC DATE: 02/05/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945	FILING DATE: 08/05/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE SYMPTOMS	

APPLICATION NUMBER: 63264747	FILING DATE: 12/01/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE IMPAIRMENT	

APPLICATION NUMBER: 63265628	FILING DATE: 12/17/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE IMPAIRMENT	

ASSIGNMENT RECORDATION BRANCH
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Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>NAGA VENKATESHA MURTHY PATHI JAGANNATHAM</td><td>02/04/2022</td></tr><tr><td>BRIAN HAREL</td><td>02/04/2022</td></tr><tr><td>NICHOLAS DEMARTINIS</td><td>02/04/2022</td></tr><tr><td>EDUARDO DUNAYEVICH</td><td>02/05/2022</td></tr></tbody></table>		Name	Execution Date	NAGA VENKATESHA MURTHY PATHI JAGANNATHAM	02/04/2022	BRIAN HAREL	02/04/2022	NICHOLAS DEMARTINIS	02/04/2022	EDUARDO DUNAYEVICH	02/05/2022
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BRIAN HAREL	02/04/2022										
NICHOLAS DEMARTINIS	02/04/2022										
EDUARDO DUNAYEVICH	02/05/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>MILLENNIUM PHARMACEUTICALS, INC.</td></tr><tr><td>Street Address:</td><td>40 LANDSDOWNE STREET</td></tr><tr><td>City:</td><td>CAMBRIDGE</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>		Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139
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City:	CAMBRIDGE										
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Postal Code:	02139										
PROPERTY NUMBERS Total: 4											
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Application Number:	63229945										
Application Number:	63264747										
Application Number:	63265628										

CORRESPONDENCE DATA**Fax Number:** (202)408-4400**Email:** charlene.woods@finnegan.com*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.***Correspondent Name:** FINNEGAN**Address Line 1:** 901 NEW YORK AVENUE, N.W.**Address Line 4:** WASHINGTON, D.C. 20001**ATTORNEY DOCKET
NUMBER:**

15496.6007-00, 01, 02, 03

NAME OF SUBMITTER:

CHARLENE WOODS

Signature:

/Charlene Woods/

Date:

02/22/2022

Total Attachments: 6

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RECEIPT INFORMATION**EPAS ID:** PAT7187446**Receipt Date:** 02/22/2022[Return to home page](#)[| HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

ASSIGNMENT

WHEREAS We, the below-named inventors (hereinafter referred to as Assignors), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)



Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

04 February 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

IN TESTIMONY WHEREOF, We have hereunto set our hands.

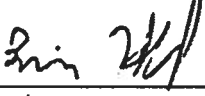
ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)



Signature

Brian HAREL

February 4, 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

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Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

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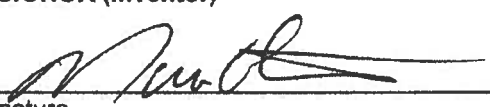
Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature


Nicholas DEMARTINIS

Execution Date

04 Feb 2022

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

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ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)

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Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

February 5, 2022

Execution Date

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Millennium Pharmaceuticals, Inc.

Signature: 

Printed Name: Constance Yeung

Corporate Title: Vice President and IP Region Head

Date: February 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
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FEBRUARY 24, 2022

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REEL/FRAME: 059062/0801
NUMBER OF PAGES: 4

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DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MILLENNIUM PHARMACEUTICALS, INC.

DOC DATE: 02/17/2022

ASSIGNEE:

TAKEDA PHARMACEUTICAL COMPANY
LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
OSAKA, JAPAN 540-8645

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

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APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

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MILLENNIUM PHARMACEUTICALS, INC.	02/17/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED										
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City:	OSAKA										
State/Country:	JAPAN										
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Application Number:	63265628										
CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20010

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page1.tif source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page2.tif source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page3.tif
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ASSIGNMENT

By this document and in accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of March 31, 2021 (the "Agreement"), made by and between Millennium Pharmaceuticals, Inc., a company organized under the laws of United States, having a place of business at 40 Landsdowne Street, Cambridge, MA 02139, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR hereby assigns and confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of this agreement and agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby assigns and confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

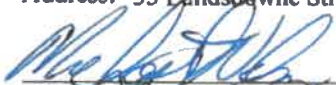
Date: February 17, 2022


Assignor: (Name) Constance Young
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022

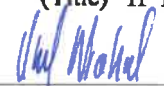

Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str.2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

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WASHINGTON, DC 20001

507140723

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REEL/FRAME: 059063/0063
NUMBER OF PAGES: 5

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

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ASSIGNOR:

TAKEDA DEVELOPMENT CENTER AMERICAS,
INC.

DOC DATE: 02/17/2022

ASSIGNEE:

TAKEDA PHARMACEUTICAL COMPANY
LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
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PATENT NUMBER:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

FILING DATE: 12/01/2021

ISSUE DATE:

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

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<table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>TAKEDA DEVELOPMENT CENTER AMERICAS, INC.</td><td>02/17/2022</td></tr></table>	Name	Execution Date	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022							
Name	Execution Date										
TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
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Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3	
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ASSIGNMENT

In accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of April 1, 2020 (the "Agreement"), made by and between Takeda Development Center Americas, Inc., a company organized under the laws of United States, having a place of business at 95 Hayden Avenue, Lexington MA 02421, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date: February 17, 2022


Assignor: (Name) Constance Yeung
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022


Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



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

FEBRUARY 24, 2022

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FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0662
NUMBER OF PAGES: 3

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

DOCKET NUMBER: 15496.6007-01, 02, 03

ASSIGNOR:

O'DONNELL, PATRICIO

DOC DATE: 02/04/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63264747

FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

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PATRICIO O'DONNELL	02/04/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>MILLENNIUM PHARMACEUTICALS, INC.</td></tr><tr><td>Street Address:</td><td>40 LANDSDOWNE STREET</td></tr><tr><td>City:</td><td>CAMBRIDGE</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>	Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139	
Name:	MILLENNIUM PHARMACEUTICALS, INC.										
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City:	CAMBRIDGE										
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Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											
Fax Number:	(202)408-4400										

Email: charlene.woods@finnegan.com <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> Correspondent Name: FINNEGAN Address Line 1: 901 NEW YORK AVENUE, N.W. Address Line 4: WASHINGTON, D.C. 20001	
ATTORNEY DOCKET NUMBER:	15496.6007-01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022
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ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor) of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)



Signature

Patricio O'DONNELL

February 4, 2022

Execution Date

Assignee Name: **Millennium Pharmaceuticals, Inc.**

Signature: _____

Printed Name: _____

Corporate Title: _____

Date: _____


CONSTANCE YOUNG
IP REGION HEAD
Feb 17, 2022



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UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
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FEBRUARY 24, 2022

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901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0879
NUMBER OF PAGES: 4

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MACEK, THOMAS A.

DOC DATE: 02/10/2022

ASSIGNEE:

TAKEDA DEVELOPMENT CENTER AMERICAS,
INC.
95 HAYDEN AVENUE
LEXINGTON, MASSACHUSETTS 02421

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

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Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

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SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Takeda Development Center Americas, Inc.**, a corporation of the United States whose post office address is 95 Hayden Avenue, Lexington MA 02421, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)

DocuSigned by:

Thomas A. Macek

Signature

Thomas A. Macek

2/10/2022

Execution Date

SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Takeda Development Center Americas, Inc.

Signature:



Printed Name:

CONSTANCE Y. CHUNG

Corporate Title:

IP REGIONAL VP

Date:

Feb 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0522
NUMBER OF PAGES: 8

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

PATHI JAGANNATHAM, NAGA VENKATESHA
MURTHY

DOC DATE: 02/04/2022

ASSIGNOR:

HAREL, BRIAN

DOC DATE: 02/04/2022

ASSIGNOR:

DEMARTINIS, NICHOLAS

DOC DATE: 02/04/2022

ASSIGNOR:

DUNAYEVICH, EDUARDO

DOC DATE: 02/05/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945	FILING DATE: 08/05/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE SYMPTOMS	

APPLICATION NUMBER: 63264747	FILING DATE: 12/01/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE IMPAIRMENT	

APPLICATION NUMBER: 63265628	FILING DATE: 12/17/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE IMPAIRMENT	

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NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>NAGA VENKATESHA MURTHY PATHI JAGANNATHAM</td> <td>02/04/2022</td> </tr> <tr> <td>BRIAN HAREL</td> <td>02/04/2022</td> </tr> <tr> <td>NICHOLAS DEMARTINIS</td> <td>02/04/2022</td> </tr> <tr> <td>EDUARDO DUNAYEVICH</td> <td>02/05/2022</td> </tr> </tbody> </table>		Name	Execution Date	NAGA VENKATESHA MURTHY PATHI JAGANNATHAM	02/04/2022	BRIAN HAREL	02/04/2022	NICHOLAS DEMARTINIS	02/04/2022	EDUARDO DUNAYEVICH	02/05/2022
Name	Execution Date										
NAGA VENKATESHA MURTHY PATHI JAGANNATHAM	02/04/2022										
BRIAN HAREL	02/04/2022										
NICHOLAS DEMARTINIS	02/04/2022										
EDUARDO DUNAYEVICH	02/05/2022										
RECEIVING PARTY DATA <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 20%;">Name:</td> <td>MILLENNIUM PHARMACEUTICALS, INC.</td> </tr> <tr> <td>Street Address:</td> <td>40 LANDSDOWNE STREET</td> </tr> <tr> <td>City:</td> <td>CAMBRIDGE</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139
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City:	CAMBRIDGE										
State/Country:	MASSACHUSETTS										
Postal Code:	02139										
PROPERTY NUMBERS Total: 4 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>63200327</td> </tr> <tr> <td>Application Number:</td> <td>63229945</td> </tr> <tr> <td>Application Number:</td> <td>63264747</td> </tr> <tr> <td>Application Number:</td> <td>63265628</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	63200327	Application Number:	63229945	Application Number:	63264747	Application Number:	63265628
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Application Number:	63264747										
Application Number:	63265628										

CORRESPONDENCE DATA**Fax Number:** (202)408-4400**Email:** charlene.woods@finnegan.com*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.***Correspondent Name:** FINNEGAN**Address Line 1:** 901 NEW YORK AVENUE, N.W.**Address Line 4:** WASHINGTON, D.C. 20001**ATTORNEY DOCKET
NUMBER:**

15496.6007-00, 01, 02, 03

NAME OF SUBMITTER:

CHARLENE WOODS

Signature:

/Charlene Woods/

Date:

02/22/2022

Total Attachments: 6

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RECEIPT INFORMATION**EPAS ID:** PAT7187446**Receipt Date:** 02/22/2022

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ASSIGNMENT

WHEREAS We, the below-named inventors (hereinafter referred to as Assignors), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)



Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

04 February 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

IN TESTIMONY WHEREOF, We have hereunto set our hands.

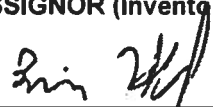
ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)



Signature

Brian HAREL

February 4, 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)

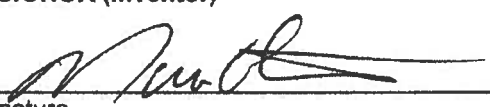
Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature


Nicholas DEMARTINIS

Execution Date

04 Feb 2022

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)

Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

February 5, 2022

Execution Date

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Millennium Pharmaceuticals, Inc.

Signature: 

Printed Name: Constance Yeung

Corporate Title: Vice President and IP Region Head

Date: February 17, 2022



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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0801
NUMBER OF PAGES: 4

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MILLENNIUM PHARMACEUTICALS, INC.

DOC DATE: 02/17/2022

ASSIGNEE:

TAKEDA PHARMACEUTICAL COMPANY
LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
OSAKA, JAPAN 540-8645

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

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TITLE: TREATMENT OF COGNITIVE SYMPTOMS

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FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

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CONVEYING PARTY DATA	
Name	Execution Date
MILLENNIUM PHARMACEUTICALS, INC.	02/17/2022
RECEIVING PARTY DATA	
Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED
Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU
City:	OSAKA
State/Country:	JAPAN
Postal Code:	540-8645
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	63200327
Application Number:	63229945
Application Number:	63264747
Application Number:	63265628
CORRESPONDENCE DATA	

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20010

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page1.tif source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page2.tif source=PAT26809 Millennium Intercompany Assignment to TPC - completely signed (003)#page3.tif	
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ASSIGNMENT

By this document and in accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of March 31, 2021 (the "Agreement"), made by and between Millennium Pharmaceuticals, Inc., a company organized under the laws of United States, having a place of business at 40 Landsdowne Street, Cambridge, MA 02139, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR hereby assigns and confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of this agreement and agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby assigns and confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

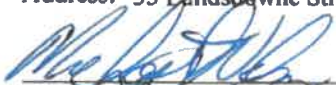
Date: February 17, 2022


Assignor: (Name) Constance Young
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022

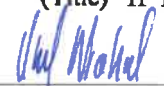

Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str.2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



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FEBRUARY 24, 2022

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059063/0063
NUMBER OF PAGES: 5

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

TAKEDA DEVELOPMENT CENTER AMERICAS, INC. DOC DATE: 02/17/2022

ASSIGNEE:

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LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
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TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED										
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Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3	
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EPAS ID:	PAT7187567
Receipt Date:	02/22/2022

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ASSIGNMENT

In accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of April 1, 2020 (the "Agreement"), made by and between Takeda Development Center Americas, Inc., a company organized under the laws of United States, having a place of business at 95 Hayden Avenue, Lexington MA 02421, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date: February 17, 2022


Assignor: (Name) Constance Yeung
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022


Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



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UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
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FEBRUARY 24, 2022

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FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0662
NUMBER OF PAGES: 3

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

DOCKET NUMBER: 15496.6007-01, 02, 03

ASSIGNOR:

O'DONNELL, PATRICIO

DOC DATE: 02/04/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63264747

FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

ASSIGNMENT RECORDATION BRANCH
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NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>PATRICIO O'DONNELL</td><td>02/04/2022</td></tr></tbody></table>	Name	Execution Date	PATRICIO O'DONNELL	02/04/2022							
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PATRICIO O'DONNELL	02/04/2022										
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<table border="1"><tr><td>Name:</td><td>MILLENNIUM PHARMACEUTICALS, INC.</td></tr><tr><td>Street Address:</td><td>40 LANDSDOWNE STREET</td></tr><tr><td>City:</td><td>CAMBRIDGE</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>	Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139	
Name:	MILLENNIUM PHARMACEUTICALS, INC.										
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Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											
Fax Number:	(202)408-4400										

Email: charlene.woods@finnegan.com <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> Correspondent Name: FINNEGAN Address Line 1: 901 NEW YORK AVENUE, N.W. Address Line 4: WASHINGTON, D.C. 20001	
ATTORNEY DOCKET NUMBER:	15496.6007-01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022
Total Attachments: 2 source=ASSIGNMENT_ODONNELL to MPI (003)#page1.tif source=ASSIGNMENT_ODONNELL to MPI (003)#page2.tif	
RECEIPT INFORMATION EPAS ID: PAT7187471 Receipt Date: 02/22/2022	

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ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor) of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)



Signature

Patricio O'DONNELL

February 4, 2022

Execution Date

Assignee Name: Millennium Pharmaceuticals, Inc.

Signature:



Printed Name:

CONSTANCE YOUNG

Corporate Title:

IP REGION HEAD

Date:

Feb 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

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901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0879
NUMBER OF PAGES: 4

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MACEK, THOMAS A.

DOC DATE: 02/10/2022

ASSIGNEE:

TAKEDA DEVELOPMENT CENTER AMERICAS,
INC.
95 HAYDEN AVENUE
LEXINGTON, MASSACHUSETTS 02421

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

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FILING DATE: 12/17/2021

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Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=ASSIGNMENT_Macek to Takeda (003)#page1.tif source=ASSIGNMENT_Macek to Takeda (003)#page2.tif source=ASSIGNMENT_Macek to Takeda (003)#page3.tif
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SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Takeda Development Center Americas, Inc.**, a corporation of the United States whose post office address is 95 Hayden Avenue, Lexington MA 02421, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)

DocuSigned by:

Thomas A. Macek

Signature

Thomas A. Macek

2/10/2022

Execution Date

SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Takeda Development Center Americas, Inc.

Signature:



Printed Name:

CONSTANCE Y. CHUNG

Corporate Title:

IP REGIONAL VP

Date:

Feb 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059062/0522
NUMBER OF PAGES: 8

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

DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

PATHI JAGANNATHAM, NAGA VENKATESHA
MURTHY

DOC DATE: 02/04/2022

ASSIGNOR:

HAREL, BRIAN

DOC DATE: 02/04/2022

ASSIGNOR:

DEMARTINIS, NICHOLAS

DOC DATE: 02/04/2022

ASSIGNOR:

DUNAYEVICH, EDUARDO

DOC DATE: 02/05/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945	FILING DATE: 08/05/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE SYMPTOMS	

APPLICATION NUMBER: 63264747	FILING DATE: 12/01/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE IMPAIRMENT	

APPLICATION NUMBER: 63265628	FILING DATE: 12/17/2021
PATENT NUMBER:	ISSUE DATE:
TITLE: TREATMENT OF COGNITIVE IMPAIRMENT	

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NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>NAGA VENKATESHA MURTHY PATHI JAGANNATHAM</td><td>02/04/2022</td></tr><tr><td>BRIAN HAREL</td><td>02/04/2022</td></tr><tr><td>NICHOLAS DEMARTINIS</td><td>02/04/2022</td></tr><tr><td>EDUARDO DUNAYEVICH</td><td>02/05/2022</td></tr></tbody></table>		Name	Execution Date	NAGA VENKATESHA MURTHY PATHI JAGANNATHAM	02/04/2022	BRIAN HAREL	02/04/2022	NICHOLAS DEMARTINIS	02/04/2022	EDUARDO DUNAYEVICH	02/05/2022
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>MILLENNIUM PHARMACEUTICALS, INC.</td></tr><tr><td>Street Address:</td><td>40 LANDSDOWNE STREET</td></tr><tr><td>City:</td><td>CAMBRIDGE</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>		Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139
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PROPERTY NUMBERS Total: 4											
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Application Number:	63264747										
Application Number:	63265628										

CORRESPONDENCE DATA**Fax Number:** (202)408-4400**Email:** charlene.woods@finnegan.com*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.***Correspondent Name:** FINNEGAN**Address Line 1:** 901 NEW YORK AVENUE, N.W.**Address Line 4:** WASHINGTON, D.C. 20001**ATTORNEY DOCKET
NUMBER:**

15496.6007-00, 01, 02, 03

NAME OF SUBMITTER:

CHARLENE WOODS

Signature:

/Charlene Woods/

Date:

02/22/2022

Total Attachments: 6

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ASSIGNMENT

WHEREAS We, the below-named inventors (hereinafter referred to as Assignors), of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/200,327	United States	March 1, 2021
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)



Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

04 February 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

IN TESTIMONY WHEREOF, We have hereunto set our hands.

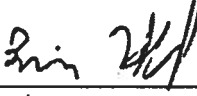
ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)



Signature

Brian HAREL

February 4, 2022

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

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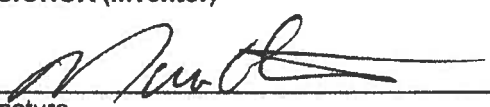
Signature

Brian HAREL

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ASSIGNOR (Inventor)

Signature


Nicholas DEMARTINIS

Execution Date

04 Feb 2022

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

Execution Date

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ASSIGNOR (Inventor)

Signature

Naga Venkatesha Murthy PATHI JAGANNATHAM

Execution Date

ASSIGNOR (Inventor)

Signature

Brian HAREL

Execution Date

ASSIGNOR (Inventor)

Signature

Nicholas DEMARTINIS

Execution Date

ASSIGNOR (Inventor)

Signature

Eduardo DUNAYEVICH

February 5, 2022

Execution Date

SOLE/JOINT INVENTION

(Worldwide Rights)

Attorney Docket Nos.: 15496.6007-00000, -01000, -02000, and -03000

Assignee Name: Millennium Pharmaceuticals, Inc.

Signature: 

Printed Name: Constance Yeung

Corporate Title: Vice President and IP Region Head

Date: February 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
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FEBRUARY 24, 2022

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FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20010

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DOCKET NUMBER: 15496.6007-00, 01, 02, 03

ASSIGNOR:

MILLENNIUM PHARMACEUTICALS, INC.

DOC DATE: 02/17/2022

ASSIGNEE:

TAKEDA PHARMACEUTICAL COMPANY
LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
OSAKA, JAPAN 540-8645

APPLICATION NUMBER: 63200327

FILING DATE: 03/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

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<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
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CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20010

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

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ASSIGNMENT

By this document and in accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of March 31, 2021 (the "Agreement"), made by and between Millennium Pharmaceuticals, Inc., a company organized under the laws of United States, having a place of business at 40 Landsdowne Street, Cambridge, MA 02139, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR hereby assigns and confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of this agreement and agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby assigns and confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

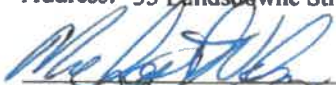
Date: February 17, 2022


Assignor: (Name) Constance Young
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022

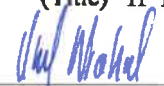

Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str.2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



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UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
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FEBRUARY 24, 2022

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FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

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REEL/FRAME: 059063/0063
NUMBER OF PAGES: 5

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ASSIGNOR:

TAKEDA DEVELOPMENT CENTER AMERICAS,
INC.

DOC DATE: 02/17/2022

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LIMITED
1-1, DOSHOMACHI 4-CHOME, CHUO-KU
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<table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>TAKEDA DEVELOPMENT CENTER AMERICAS, INC.</td><td>02/17/2022</td></tr></table>	Name	Execution Date	TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022							
Name	Execution Date										
TAKEDA DEVELOPMENT CENTER AMERICAS, INC.	02/17/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td></tr><tr><td>Street Address:</td><td>1-1, DOSHOMACHI 4-CHOME, CHUO-KU</td></tr><tr><td>City:</td><td>OSAKA</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>540-8645</td></tr></table>	Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, DOSHOMACHI 4-CHOME, CHUO-KU	City:	OSAKA	State/Country:	JAPAN	Postal Code:	540-8645	
Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED										
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State/Country:	JAPAN										
Postal Code:	540-8645										
PROPERTY NUMBERS Total: 4											
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Application Number:	63229945										
Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-00, 01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3
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EPAS ID:	PAT7187567
Receipt Date:	02/22/2022

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ASSIGNMENT

In accordance with the **Intercompany Agreement on Assignment of Legal Title to Patents** dated effective as of April 1, 2020 (the "Agreement"), made by and between Takeda Development Center Americas, Inc., a company organized under the laws of United States, having a place of business at 95 Hayden Avenue, Lexington MA 02421, USA ("ASSIGNOR"), and TAKEDA PHARMACEUTICAL COMPANY LIMITED, a company organized under the laws of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645 Japan ("ASSIGNEE"), ASSIGNOR confirms its transfer and assignment to ASSIGNEE of legal title to the patent or patent applications, and inventions (as defined in 35 USC Sec. 100) in such patent or patent applications ("Inventions"), identified below

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/200,327 filed in the United States Patent and Trademark Office on March 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Symptoms;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/229,945 filed in the United States Patent and Trademark Office on August 5, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____, and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/264,747 filed in the United States Patent and Trademark Office on December 1, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____ and

Treatment of Cognitive Impairment;

- ☐ prepared for filing in the United States Patent and Trademark Office; or
- ☒ identified by United States Application No. 63/265,628 filed in the United States Patent and Trademark Office on December 17, 2021; and
- ☐ identified by International Patent Application No. _____ filed on _____; and
- ☐ is also aware of the following priority applications:
- Serial No.: _____; Filed: _____,

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, the receipt of which is hereby acknowledged, ASSIGNOR hereby confirms and/or declares that it holds legal title to the patent application, the same to be held and enjoyed by ASSIGNEE, its successors and assigns, in and to any and all Inventions described in the patent application, and/or any priority applications noted above. Assignor hereby confirms that assignment and transfer of such legal title is and was effective not later than the filing date of the patent or patent application and/or priority application. ASSIGNOR'S assignment and transfer applies to the above-referenced patent or patent application, any Inventions disclosed and/or claimed in this patent or patent application, any and all patents and patent applications arising from such application and any addition, division, continuation, continuation in part, substitution, extension, renewal, reissue, confirmation thereof, including their patent term adjustments (PTA), extensions (PTE) or supplementary protection certificates (SPC). Such legal title includes the entire undivided right to claim priority in respect of any invention in the said applications in any applicable country in connection with filing a patent application in any applicable country. Also, this assignment and transfer pertains to any legal title ownership rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including: (i) the entire undivided rights to claim priority under the International Convention for the Protection of Industrial Property; (ii) in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued. ASSIGNEE shall hold and enjoy legal title in said Inventions, applications, and patent(s) for its own use and for its successors, assigns and legal representatives, to the full end of term for which said patent(s) may be granted and extended by any patent term adjustment, extension or supplemental protection certificate.

AND, ASSIGNOR hereby acknowledges that this assignment carries with it the right in ASSIGNEE to apply for, and receive Legal Title to, any and all patent(s) for said Inventions in ASSIGNEE'S own name;

IN TESTIMONY WHEREOF, ASSIGNOR by its duly authorized representative acting on his/her own free will have caused this instrument to be duly executed and have hereunto set his/her hand and affixed his/her seal on the date set forth below.

Assignors(s) and Assignee hereto executed this document under the presence of two witnesses, who will also sign below

Assignor and Assignee agree that U.S. law governs this assignment, and

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date: February 17, 2022


Assignor: (Name) Constance Yeung
(Title) Vice President, IP Region Head

Date: February 17, 2022


Witness 1 Name: Jacqueline Andreu
Address: 35 Lansdowne Street, Cambridge, MA 02139

Date: February 17, 2022


Witness 2 Name: Michael E. Nelson
Address: 35 Lansdowne Street, Cambridge, MA 02139

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

Date: 2022-02-21


Assignee: (Name) Dr. Bernd Kratzer
(Title) IP Region Head

Date: 2022-02-21


Witness 1 Name: Dr. Olaf Wrobel
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany

Date: 2022-02-21


Witness 2 Name: Bianca Bosch
Address: Byk-Gulden-Str. 2, 78467 Konstanz, Germany



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

PTAS

FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

507140627

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

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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: 02/22/2022

REEL/FRAME: 059062/0662
NUMBER OF PAGES: 3

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

DOCKET NUMBER: 15496.6007-01, 02, 03

ASSIGNOR:

O'DONNELL, PATRICIO

DOC DATE: 02/04/2022

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 LANDSDOWNE STREET
CAMBRIDGE, MASSACHUSETTS 02139

APPLICATION NUMBER: 63229945

FILING DATE: 08/05/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE SYMPTOMS

APPLICATION NUMBER: 63264747

FILING DATE: 12/01/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION



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Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
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Name	Execution Date										
PATRICIO O'DONNELL	02/04/2022										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>MILLENNIUM PHARMACEUTICALS, INC.</td></tr><tr><td>Street Address:</td><td>40 LANDSDOWNE STREET</td></tr><tr><td>City:</td><td>CAMBRIDGE</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>	Name:	MILLENNIUM PHARMACEUTICALS, INC.	Street Address:	40 LANDSDOWNE STREET	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139	
Name:	MILLENNIUM PHARMACEUTICALS, INC.										
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City:	CAMBRIDGE										
State/Country:	MASSACHUSETTS										
Postal Code:	02139										
PROPERTY NUMBERS Total: 3											
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Property Type	Number										
Application Number:	63229945										
Application Number:	63264747										
Application Number:	63265628										
CORRESPONDENCE DATA											
Fax Number:	(202)408-4400										

Email: charlene.woods@finnegan.com <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> Correspondent Name: FINNEGAN Address Line 1: 901 NEW YORK AVENUE, N.W. Address Line 4: WASHINGTON, D.C. 20001	
ATTORNEY DOCKET NUMBER:	15496.6007-01, 02, 03
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022
Total Attachments: 2 source=ASSIGNMENT_ODONNELL to MPI (003)#page1.tif source=ASSIGNMENT_ODONNELL to MPI (003)#page2.tif	
RECEIPT INFORMATION EPAS ID: PAT7187471 Receipt Date: 02/22/2022	

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ASSIGNMENT

WHEREAS I, the below-named inventor (hereinafter referred to as Assignor) of an invention disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/229,945	United States	August 5, 2021
63/264,747	United States	December 1, 2021
63/265,628	United States	December 17, 2021

WHEREAS, **Millennium Pharmaceuticals, Inc.**, a corporation of the United States whose post office address is 40 Landsdowne Street, Cambridge, MA 02139, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced applications when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

ASSIGNOR (Inventor)



Signature

Patricio O'DONNELL

February 4, 2022

Execution Date

Assignee Name: **Millennium Pharmaceuticals, Inc.**

Signature: _____

Printed Name: _____

Corporate Title: _____

Date: _____


CONSTANCE YOUNG
IP REGION HEAD
Feb 17, 2022



UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 24, 2022

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FINNEGAN
901 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20001

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RECORDATION DATE: 02/22/2022

REEL/FRAME: 059063/0341
NUMBER OF PAGES: 4

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

DOCKET NUMBER: 15496.6007-03000

ASSIGNOR:

BRAR, SATJIT SINGH

DOC DATE: 02/08/2022

ASSIGNOR:

FUREY, MAURA L.

DOC DATE: 02/08/2022

ASSIGNOR:

GE, TINGTING

DOC DATE: 02/09/2022

ASSIGNOR:

SINGH, JASKARAN B.

DOC DATE: 02/09/2022

ASSIGNEE:

NEUROCRINE BIOSCIENCES, INC.
12780 EL CAMINO REAL
SAN DIEGO, CALIFORNIA 92130

APPLICATION NUMBER: 63265628

FILING DATE: 12/17/2021

PATENT NUMBER:

ISSUE DATE:

TITLE: TREATMENT OF COGNITIVE IMPAIRMENT

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION



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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
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Property Type	Number										
Application Number:	63265628										
CORRESPONDENCE DATA											

Fax Number:	(202)408-4400
Email:	charlene.woods@finnegan.com
<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>	
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	15496.6007-03000
NAME OF SUBMITTER:	CHARLENE WOODS
Signature:	/Charlene Woods/
Date:	02/22/2022

Total Attachments: 3 source=199.US4.PRO assignment fully executed - inventors to NBI#page1.tif source=199.US4.PRO assignment fully executed - inventors to NBI#page2.tif source=199.US4.PRO assignment fully executed - inventors to NBI#page3.tif
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Receipt Date:	02/22/2022

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ASSIGNMENT

WHEREAS We, the below-named inventors (hereinafter referred to as Assignors), of an invention disclosed and claimed in the application identified below this paragraph:

Application Number	Country of Filing	Filing Date
63/265,628	United States	December 17, 2021

WHEREAS, Neurocrine Biosciences, Inc., a corporation of the United States whose post office address is 12780 El Camino Real, San Diego, CA 92130, USA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, the above-referenced application that discloses and claims this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and We hereby authorize and request that any official of any country whose duty it is to issue patents on the application as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

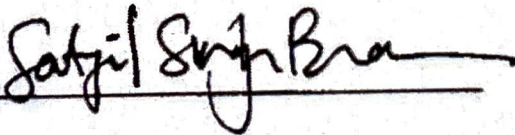
AND, WE further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE authorize and request a patent practitioner of record in this application, to insert the filing date, country of filing, and application number of the above-referenced application when known.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

ASSIGNOR (Inventor)

Signature


Satjit Singh BRAR

Feb 8, 2022
Execution Date

ASSIGNOR (Inventor)

Maura L. Furey
Signature

Maura L. FUREY
08 Feb 22
Execution Date

ASSIGNOR (Inventor)

Tingting Ge
Signature

Tingting GE
09-Feb-2022
Execution Date

ASSIGNOR (Inventor)

Jaskaran B. Singh
Signature

Jaskaran B. SINGH
February 9, 2022
Execution Date

SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No.: 15496.6007-03000

Assignee Name: Neurocrine Biosciences, Inc.

Signature: 

Printed Name: David L. Bradford

Corporate Title: Vice President & Head, Intellectual Property

Date: 15 Feb 2021