

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3245811

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| JEFFREY M MARRA | 04/26/2013 |
| XIAOMING ZHOU | 04/19/2013 |
| NAOKI TSUNO | 04/22/2013 |
| TATSUHIKO UENO | 04/23/2013 |

RECEIVING PARTY DATA

| | |
|--------------------------|-------------------------|
| Name: | PURDUE PHARMA L.P. |
| Street Address: | ONE STAMFORD FORUM |
| Internal Address: | 201 TRESSER BOULEVARD |
| City: | STAMFORD |
| State/Country: | CONNECTICUT |
| Postal Code: | 06901-3431 |
| Name: | SHIONOGI & CO., LTD. |
| Street Address: | 12-4, SAGISU 5-CHOME |
| Internal Address: | FUKUSHIMA-KU, OSAKA-SHI |
| City: | OSAKA |
| State/Country: | JAPAN |
| Postal Code: | 5530002 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 14138976 |

CORRESPONDENCE DATA**Fax Number:** (650)813-4848*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.***Phone:** 650-813-4800**Email:** patents@dechert.com**Correspondent Name:** CARL A. MORALES, PH.D.**Address Line 1:** DECHERT LLP**Address Line 2:** P.O. BOX 390460**Address Line 4:** MOUNTAIN VIEW, CALIFORNIA 94039-0460**PATENT**

| | |
|--------------------------------|-----------------------|
| ATTORNEY DOCKET NUMBER: | 379612-459US (132728) |
| NAME OF SUBMITTER: | CARL A. MORALES |
| SIGNATURE: | /Carl A. Morales/ |
| DATE SIGNED: | 02/27/2015 |

Total Attachments: 4

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ASSIGNMENT

I, Jeffrey M. Marra, a citizen of the United States of America, residing at 10 Gate Lane, Old Bridge, New Jersey 08857, and

I, Xiaoming Zhou, a citizen of the United States of America, residing at 22 Dogwood Drive, Plainsboro, New Jersey 08536,

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR"), in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

PURDUE PHARMA L.P.

a Limited Partnership organized under the laws of Delaware, located at One Stamford Forum, 201 Tresser Boulevard, Stamford, Connecticut 06901-3431 U.S.A. (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, **throughout the world**, in and to my Invention entitled:

OXIME-SUBSTITUTED QUINOXALINE-PIPERIDINE COMPOUNDS AND THE USES THEREOF

invented by me, together with Naoki TSUNO and Tatsuhiko UENO, citizens of Japan, with an address c/o Shionogi & Co., Ltd., 1-1, Futabacho 3-chome, Toyonaka-shi, Osaka 5610825 Japan, and described in the specification bearing the above Attorney Docket No. and title, and filed as U.S. Provisional Patent Application No. 61/782,702, filed on March 14, 2013, and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, and all applications for industrial property protection including, without limitation, all applications for patents, utility models, inventor's certificates and designs and rights of priority therein that may be filed for said Invention in any country, and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this Assignment and sale had not been made.

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or

continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement or enforcement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law.

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent or other evidence or forms of industrial property protection resulting from said Invention and application(s) concerning same to said ASSIGNEE, its successors or assigns.

I hereby grant my attorney or agent identified above power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or any other patent office for recordation of this document.

This Assignment shall have an effective date corresponding to the last date of execution.


I hereby represent that I have the full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict with this Assignment.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

Dated: 04/26/2013


Jeffrey M. MARRA, Inventor

Dated: 04/19/2013


Xiaoming ZHOU, Inventor

ASSIGNMENT

I, Naoki TSUNO, a citizen of Japan, with an address c/o Shionogi & Co., Ltd., 1-1, Futabacho 3-chome, Toyonaka-shi, Osaka 561-0825 Japan, and

I, Tatsubiko UENO, a citizen of Japan, with an address c/o Shionogi & Co., Ltd., 1-1, Futabacho 3-chome, Toyonaka-shi, Osaka 561-0825 Japan;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR"), in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

SHIONOGI & CO., LTD.

a corporation organized under the laws of Japan, located at 12-4, Sagisu 5-chome, Fukushima-ku, Osaka-shi, Osaka 5530002 Japan (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, **throughout the world**, in and to my Invention entitled:

**OXIME-SUBSTITUTED QUINOXALINE-TYPE PIPERIDINE COMPOUNDS AND
THE USES THEREOF**

invented by me, together with Jeffrey M. Marra, a citizen of the United States of America, residing at 10 Gate Lane, Old Bridge, New Jersey 08857, and Xiaoming ZHOU, a citizen of the United States of America, residing at 22 Dogwood Drive, Plainsboro, NJ 08536, and described in the specification bearing the above Attorney Docket No. and title, and filed as U.S. Provisional Patent Application No. 61/782,702, filed on March 14, 2013, and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, and all applications for industrial property protection including, without limitation, all applications for patents, utility models, inventor's certificates and designs and rights of priority therein that may be filed for said Invention in any country, and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this Assignment and sale had not been made.

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the

counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement or enforcement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law.

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent or other evidence or forms of industrial property protection resulting from said Invention and application(s) concerning same to said ASSIGNEE, its successors or assigns.

I hereby grant my attorney or agent identified above power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or any other patent office for recordation of this document.

This Assignment shall have an effective date corresponding to the last date of execution.

I hereby represent that I have the full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict with this Assignment.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

Dated: 13/4/22

Naoki TSUNO
Naoki TSUNO, Inventor

Dated: 13/9/23

Tatsuhiko Ueno
Tatsuhiko UENO, Inventor