

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4730922

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JUN MA | 12/06/2017 |
| GUOQIANG WANG | 12/06/2017 |
| BIN WANG | 12/06/2017 |
| XUECHAO XING | 12/06/2017 |
| RUICHAO SHEN | 12/06/2017 |
| JING HE | 12/06/2017 |
| YAT SUN OR | 12/06/2017 |
| RECEIVING PARTY DATA | |
| Name: | ENANTA PHARMACEUTICALS, INC. |
| Street Address: | 500 ARSENAL STREET |
| City: | WATERTOWN |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02472 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15724919 |
| CORRESPONDENCE DATA | |
| Fax Number: | (978)251-3973 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 9782513509 |
| Email: | cdelmore@elmorepatents.com |
| Correspondent Name: | ELMORE PATENT LAW GROUP, P.C. |
| Address Line 1: | 484 GROTON ROAD |
| Address Line 4: | WESTFORD, MASSACHUSETTS 01886 |
| ATTORNEY DOCKET NUMBER: | 4014.1300 US1 |
| NAME OF SUBMITTER: | EDGAR W. HARLAN, REG. NO. 42632 |
| SIGNATURE: | /Edgar W. Harlan/ |
| DATE SIGNED: | 12/11/2017 |

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, **Jun Ma, Guoqiang Wang, Bin Wang, Xuechao Xing, Ruichao Shen, Jing He and Yat Sun Or** (hereinafter "ASSIGNORS"), have invented a certain improvement in **ISOXAZOLE ANALOGS AS FXR AGONISTS AND METHODS OF USE THEREOF** described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **October 4, 2017** as Application No. **15/724,919**;
- ☐ was patented under U.S. Patent No. ☐ on ☐.

WHEREAS, **Enanta Pharmaceuticals, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **500 Arsenal Street, Watertown, Massachusetts 02472** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application and all divisionals, renewals, and continuations thereof, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon and all reissues and extensions thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property including, without limitation, all applications for patents, utility models and designs which may be filed for said invention in any countries foreign to the United States together with the right to file such applications and the right to claim for the same the priority rights claimed in or derived from said application or any priority application thereof under the Patent Laws of the United States, the International Convention 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; and all forms of industrial property protection including, without limitation, patents, utility models, inventor's certificates, and designs which may be granted for said invention in any country foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby covenant and agree that we have full right to convey the entire interest herein assigned and that we have not executed, and will not execute, any agreement in conflict herewith;

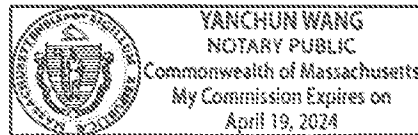
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, the ASSIGNORS, have duly executed this Assignment.

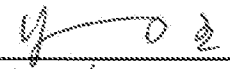
Inventor: 
JUN MA

State/Commonwealth
of Massachusetts
County of Middlesex



On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **JUN MA** proved to me through satisfactory evidence of identification, which were known to me to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

(SEAL)

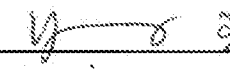
 Notary Public
Yanchun Wang (print name)
My Commission expires 4/19/2024

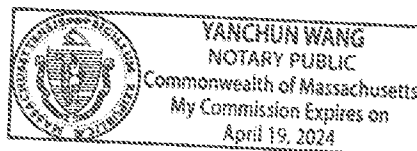
Inventor: 
GUOQIANG WANG

State/Commonwealth
of Massachusetts
County of Middlesex

On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **GUOQIANG WANG** proved to me through satisfactory evidence of identification, which were known to me to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

(SEAL)

 Notary Public
Yanchun Wang (print name)
My Commission expires 4/19/2024



Title: ISOXAZOLE ANALOGS AS FXR AGONISTS AND METHODS OF USE THEREOF

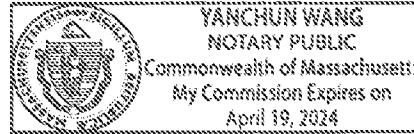
Inventor: Bin Wang

BIN WANG

State/Commonwealth

of Massachusetts

County of Middlesex



On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **BIN WANG** proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

(SEAL)

Yanchun Wang Notary Public
Yanchun Wang (print name)
My Commission expires 4/19/2024

Inventor: Xuechao Xing

XUECHAO XING

State/Commonwealth

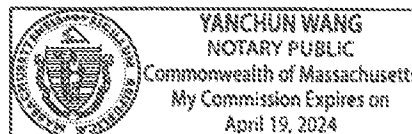
of Massachusetts

County of Middlesex

On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **XUECHAO XING** proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

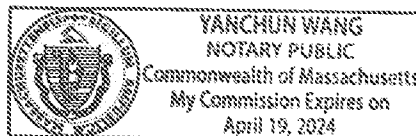
(SEAL)

Yanchun Wang Notary Public
Yanchun Wang (print name)
My Commission expires 4/19/2024



Inventor: *Rui Chen***RUICHAO SHEN**

State/Commonwealth

of MassachusettsCounty of Middlesex

On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **RUICHAO SHEN** proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

(SEAL)

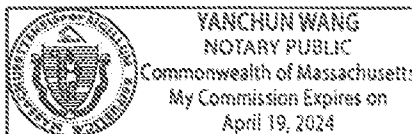
Yanchun Wang Notary PublicYanchun Wang (print name)My Commission expires 4/19/2024Inventor: *Jing He***JING HE**

State/Commonwealth

of MassachusettsCounty of Middlesex

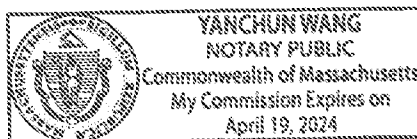
On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **JING HE** proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

(SEAL)

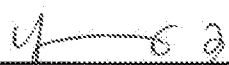
Yanchun Wang Notary PublicYanchun Wang (print name)My Commission expires 4/19/2024

Inventor: **YAT SUN OR**

State/Commonwealth

of MassachusettsCounty of Middlesex

On this 6th day of December, 2017, before me, the undersigned notary public, personally appeared **YAT SUN OR** proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

 Notary Public

(SEAL)

Yanchun Wang (print name)My Commission expires 4/19/2024

IN TESTIMONY WHEREOF, I, on behalf of and duly authorized by the ASSIGNEE, have executed this Assignment.

ENANTA PHARMACEUTICALS, INC.

By: Name: Nathaniel S. GardinerTitle: Senior Vice President and General Counsel