

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5884603

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XIAO-YI XIAO	12/16/2013
ROGER B. CLARK	12/16/2013
DIANA K. HUNT	12/16/2013
CUIXIANG SUN	12/16/2013
MAGNUS P. RÖNN	10/29/2014
WU-YAN ZHANG	10/29/2014
MINSHENG HE	10/29/2014
RECEIVING PARTY DATA	
Name:	TETRAPHASE PHARMACEUTICALS, INC.
Street Address:	480 ARSENAL ST., SUITE 110
City:	WATERTOWN
State/Country:	MASSACHUSETTS
Postal Code:	02472
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16393725
CORRESPONDENCE DATA	
Fax Number:	(617)832-7000
<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:	(617) 988-3522
Email:	patentdocketing@foleyhoag.com, rcc@foleyhoag.com
Correspondent Name:	FOLEY HOAG LLP
Address Line 1:	155 SEAPORT BLVD., SEAPORT WEST
Address Line 4:	BOSTON, MASSACHUSETTS 02210-2600
ATTORNEY DOCKET NUMBER:	TPQ-06503
NAME OF SUBMITTER:	ROBERT CAMPBELL
SIGNATURE:	/Robert Campbell/
DATE SIGNED:	12/26/2019

Total Attachments: 7

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Multi-JointASSIGNMENT

WHEREAS, we, **Magnus Ronn, Wu-Yan Zhang and Minsheng He**, together with co-inventor(s) **Xiao-Yi Xiao, Roger B. Clark, Diana Katharine Hunt and Cuixiang Sun**, have invented a certain improvement in **Tetracycline Compounds** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. [], filed [];
- the specification of which is a Patent Cooperation Treaty Application, International Application No. PCT/US2013/057690, filed August 30, 2013, which designates the United States of America;
- which was patented under United States Patent No. [].

WHEREAS, **Tetraphase 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 **480 Arsenal Street, Suite 110, Watertown, MA 02472** desires to confirm its 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, our 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, together with our entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; 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 by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, 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; I hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

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 any further applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase 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 each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Magnus Ronn

State/Commonwealth of Massachusetts
County of Middlesex

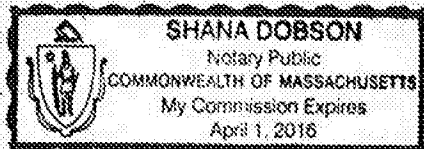
On this 29th day of October, 2014, before me, the undersigned notary public, personally appeared Magnus Ronn,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public _____

(print name)

My Commission expires 04 / 01 / 2016

Inventor's Signature: _____

Wu-Yan Zhang

State/Commonwealth
of Massachusetts

County of Middlesex

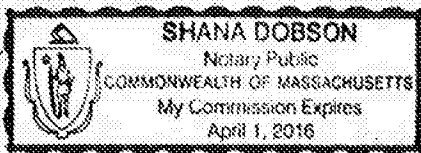
On this 29th day of October 2014, before me, the undersigned notary public, personally appeared Wu-Yan Zhang,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public _____

Shana Dobson

(print name)

My Commission expires 04 / 01 / 2016

Inventor's Signature: _____

Minsheng He

State/Commonwealth
of Massachusetts

County of Middlesex

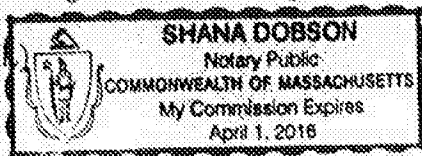
On this 29th day of October 2014, before me, the undersigned notary public, personally appeared Minsheng He,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public _____

Shana Dobson

(print name)

My Commission expires 04 / 01 / 2016

JointASSIGNMENT

WHEREAS, we, **Xiao-Yi Xiao, Roger B. Clark, Diana Katharine Hunt and Cuixiang Sun**, have invented a certain improvement in **Tetracycline Compounds** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. [], filed [];
- the specification of which is a Patent Cooperation Treaty Application, International Application No. **PCT/US2013/057690**, filed **August 30, 2013** which designates the United States of America;
- which was patented under United States Patent No. [].

WHEREAS, **Tetraphase 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 **480 Arsenal Street, Suite 110, Watertown, Massachusetts 02472** desires to confirm its 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, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; 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 by filing any such applications for Letters Patent. 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 any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, 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; we hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

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 any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase 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 each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

[Handwritten Signature]

Xiao-Yi Xiao

State/Commonwealth
of Massachusetts
County of Middlesex

On this 16th day of December 2013, before me, the undersigned notary public, personally appeared Xiao-Yi Xiao,

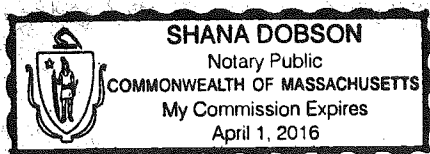
- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public *[Signature]*
Shana Dobson (print name)

My Commission expires 04 101 12016



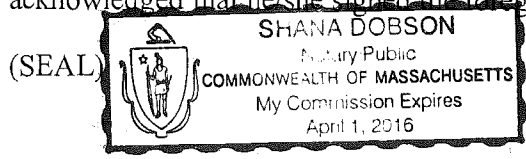
Inventor's Signature: [Signature]
Roger B. Clark

State/Commonwealth
of Massachusetts
County of Middlesex

On this 16th day of December 2013, before me, the undersigned notary public, personally appeared Roger B. Clark,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Notary Public [Signature]
Shana Dobson (print name)
My Commission expires 04 / 01 / 2016

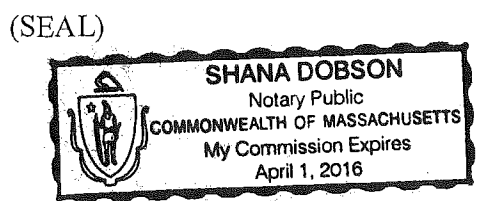
Inventor's Signature: [Signature]
Diana Katharine Hunt

State/Commonwealth
of Massachusetts
County of Middlesex

On this 16th day of December 2013, before me, the undersigned notary public, personally appeared Diana Katharine Hunt,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Notary Public [Signature]
Shana Dobson (print name)
My Commission expires 04 / 01 / 2016

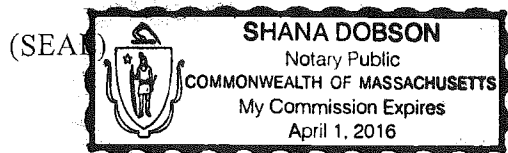
Inventor's Signature: Cuixiang Sun
Cuixiang Sun

State/Commonwealth
of Massachusetts
County of Middlesex

On this 16th day of December 2013, before me, the undersigned notary
public, personally appeared Cuixiang Sun,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Notary Public [Signature]
Shana Dobson (print name)
My Commission expires 04/01/2016