

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3650085

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RYAN A. ADAMS	07/12/2010
FEI HONG	07/12/2010
JI ZHAO	07/12/2010
KRISTI PIEHL	07/12/2010
EVA R. ARMOUR	07/12/2010
KENNY D'ARIGO	07/12/2010
LESLIE A. GREENE	07/12/2010
EVE MERRIMAN	07/10/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ATYR PHARMA, INC.
<b>Street Address:</b>	3545 JOHN HOPKINS COURT
<b>Internal Address:</b>	SUITE #250
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14703627
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)842-7899
<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>	
<b>Phone:</b>	(202) 842-7800
<b>Email:</b>	wthomas@cooley.com
<b>Correspondent Name:</b>	WENDY THOMAS
<b>Address Line 1:</b>	1299 PENNSYLVANIA, SUITE 700
<b>Address Line 2:</b>	PATENT DEPARTMENT/ATTN: MARK ROGEL
<b>Address Line 4:</b>	WASHINGTON, D.C. 20004
<b>ATTORNEY DOCKET NUMBER:</b>	ATYR-012/02US
<b>NAME OF SUBMITTER:</b>	MARK E. ROGEL

PATENT

<b>SIGNATURE:</b>	/Mark E. Rogel/
<b>DATE SIGNED:</b>	12/09/2015
<b>Total Attachments: 8</b> source=ATYR-01202US_ASSIGN#page1.tif source=ATYR-01202US_ASSIGN#page2.tif source=ATYR-01202US_ASSIGN#page3.tif source=ATYR-01202US_ASSIGN#page4.tif source=ATYR-01202US_ASSIGN#page5.tif source=ATYR-01202US_ASSIGN#page6.tif source=ATYR-01202US_ASSIGN#page7.tif source=ATYR-01202US_ASSIGN#page8.tif	

## ASSIGNMENT

WHEREAS, we, Ryan A. Adams, Fei Hong, Ji Zhao, Kristi Piehl, Eva R. Armour, Kenny D'Arigo, Leslie A. Greene, and Eve Merriman (hereinafter referred to as ASSIGNORS), having mailing addresses of 1260 Diamond Street, San Diego, CA 92109; 7979 Caminito Dia, #2, San Diego, CA 92122; 12637 El Camino Real, #5202, San Diego, CA 92130; 5321 Zion Avenue, San Diego CA 92107; 4548 West Point Loma Boulevard, San Diego, CA 92107; 3980 Texas Street, San Diego CA 92104; 13941 Davenport Avenue, San Diego CA 92129 and 2010 San Diego Avenue, San Diego, CA 92110, respectively, are the joint inventors of an invention entitled "COMPOSITIONS AND METHODS COMPRISING ASPARTYL-tRNA SYNTHETASES HAVING NON-CANONICAL BIOLOGICAL ACTIVITIES," as described and claimed in the specification for which an application for United States letters patent was filed on March 31, 2010, and assigned Application No. 12/751,358; This application claims the benefit of U.S. Provisional Application No. 61/165,194, filed on March 31, 2009;

WHEREAS, aTyr Pharma, Inc. (hereinafter referred to as ASSIGNEE), a corporation of the State of Delaware having a place of business at 3565 General Atomics Court, Suite 103, San Diego, CA 92121, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United

States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

7-12-2010  
Date

Ryan A. Adams  
Ryan A. Adams

State of California

County of San Diego

On July 12, 2010, before me, Theresa A. Davis, Notary Public,  
(Here insert name and title of the officer)  
personally appeared Ryan A. Adams

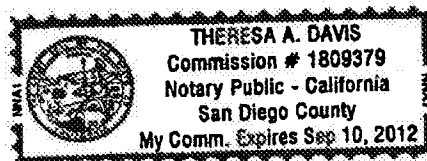
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Theresa A. Davis

(Notary Seal)



7-12-2010  
Date

Fei Hong  
Fei Hong

State of California

County of San Diego

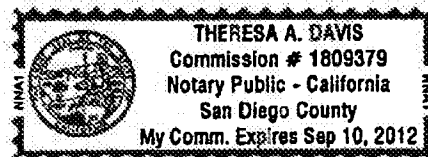
On July 12, 2010, before me, Theresa A. Davis, Notary Public  
(Here insert name and title of the officer)  
personally appeared Fei Hong

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Theresa A. Davis



(Notary Seal)

7-12-2010  
Date

Ji Zhao  
Ji Zhao

State of California

County of San Diego

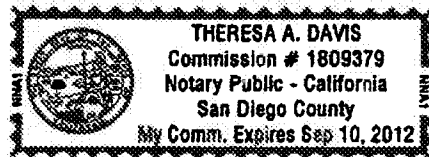
On July 12, 2010, before me, Theresa A. Davis, Notary Public  
(Here insert name and title of the officer)  
personally appeared Ji Zhao

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Theresa A. Davis



(Notary Seal)

7/12/2010  
Date

Kristi Piehl  
Kristi Piehl

State of California

County of San Diego

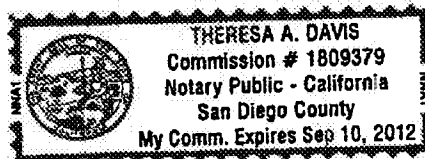
On July 12, 2010, before me, Theresa A. Davis, Notary Public  
(Here insert name and title of the officer)  
personally appeared Kristi Piehl

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Theresa A. Davis



(Notary Seal)

12 July 2010  
Date

Eva R. Armour  
Eva R. Armour

State of California

County of San Diego

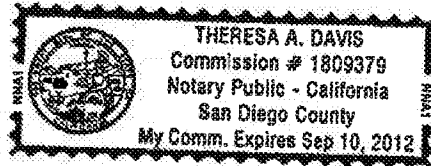
On July 12, 2010, before me, Theresa A. Davis, Notary Public  
(Here insert name and title of the officer)  
personally appeared EVA R. ARMOUR

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Theresa A. Davis



(Notary Seal)

7/12/2010  
Date

Kenny D'Arigo

State of California

County of San Diego

On July 12, 2010, before me, Theresa A. Davis, Notary Public  
(Here insert name and title of the officer)  
personally appeared Kenny D'Arigo

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Theresa A. Davis



7/12/2010  
Date

Leslie A. Greene  
Leslie A. Greene

State of California

County of San Diego

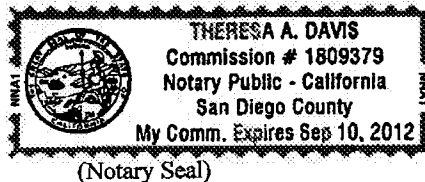
On July 12, 2010, before me, Theresa A. Davis, Notary Public  
(Here insert name and title of the officer)  
personally appeared Leslie A. Greene

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Theresa A. Davis



\_\_\_\_\_  
Date

\_\_\_\_\_  
Eve Merriman

State of California

County of \_\_\_\_\_

On \_\_\_\_\_, before me, \_\_\_\_\_  
(Here insert name and title of the officer)



WITNESS my hand and official seal.

(Notary Seal)

Date

Leslie A. Greene

State of California

County of \_\_\_\_\_

On \_\_\_\_\_, before me, \_\_\_\_\_,  
(Here insert name and title of the officer)

personally appeared \_\_\_\_\_

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Notary Seal)

Date

July 10, 2010

Eve Merriman

State of California

County of San Diego

On July 10, 2010, before me, John M. Buchanan, Notary Public,  
(Here insert name and title of the officer)

personally appeared Eve Merriam,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

John M. Burnham

Docket No.: 120161.412  
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