

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2720595

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>LESLIE ANN GREENE</td> <td>07/11/2013</td> </tr> <tr> <td>RYAN ANDREW ADAMS</td> <td>07/10/2013</td> </tr> <tr> <td>FEI HONG</td> <td>07/10/2013</td> </tr> <tr> <td>JI ZHAO</td> <td>07/15/2013</td> </tr> <tr> <td>EVA REBECKS STEPHANIE ARMOUR</td> <td>07/10/2013</td> </tr> <tr> <td>KRISTI HELEN PIEHL</td> <td>07/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	LESLIE ANN GREENE	07/11/2013	RYAN ANDREW ADAMS	07/10/2013	FEI HONG	07/10/2013	JI ZHAO	07/15/2013	EVA REBECKS STEPHANIE ARMOUR	07/10/2013	KRISTI HELEN PIEHL	07/10/2013
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EVA REBECKS STEPHANIE ARMOUR	07/10/2013														
KRISTI HELEN PIEHL	07/10/2013														
RECEIVING PARTY DATA															
Name:	ATYR PHARMA INC.														
Street Address:	3545 JOHN HOPKINS COURT														
Internal Address:	SUITE #250														
City:	SAN DIEGO														
State/Country:	CALIFORNIA														
Postal Code:	92121														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13753272</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13753272										
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Application Number:	13753272														
CORRESPONDENCE DATA															
Fax Number:	(202)842-7899														
Phone:	2064528700														
Email:	WTHOMAS@COOLEY.COM														
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>															
Correspondent Name:	COOLEY LLP														
Address Line 1:	1299 PENNSYLVANIA AVENUE, NW SUITE 700														
Address Line 2:	ATTN: PATENT DEPARTMENT/MARK ROGEL														
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20004														
ATTORNEY DOCKET NUMBER:	ATYR-008/03US 315789-2410														
<b>PATENT</b>															

NAME OF SUBMITTER:	MARK E. ROGEL
Signature:	/Mark E. Rogel/
Date:	02/10/2014
<b>Total Attachments: 10</b> source=ATYR-00803US_ASSIGN#page1.tif source=ATYR-00803US_ASSIGN#page2.tif source=ATYR-00803US_ASSIGN#page3.tif source=ATYR-00803US_ASSIGN#page4.tif source=ATYR-00803US_ASSIGN#page5.tif source=ATYR-00803US_ASSIGN#page6.tif source=ATYR-00803US_ASSIGN#page7.tif source=ATYR-00803US_ASSIGN#page8.tif source=ATYR-00803US_ASSIGN#page9.tif source=ATYR-00803US_ASSIGN#page10.tif	

## ASSIGNMENT

Leslie Ann Greene, residing at 13941 Davenport Avenue, San Diego, California 92129; Ryan Andrew Adams, residing at 1260 Diamond Street, San Diego, California 92109; Fei Hong, residing at 12646 Spindletop Road, San Diego, California 92129; Ji Zhao, residing at 12637 El Camino Real, # 5202, San Diego, California 92130; Eva Rebecka Stephanie Armour, residing at 4548 West Point Loma Boulevard, San Diego, California 92107; and Kristi Helen Piehl, residing at 5321 Zion Avenue, San Diego, California 92120 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled COMPOSITIONS AND METHODS COMPRISING GLYCYL-ARNA SYNTHETASES HAVING NON-CANONICAL BIOLOGICAL ACTIVITIES, and which is a:

- (1)  provisional application  
 (a)  to be filed herewith; or  
 (b)  bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
- (2)  non-provisional application  
 (a)  to be filed herewith; or  
 (b)  bearing Application No. 13/753,272, and filed on January 29, 2013; or
- (3)  PCT application  
 (a)  bearing Application No. \_\_\_\_\_, and filed on January 29, 2013.

WHEREAS, aTyr Pharma, Inc., a corporation having its principal place of business at 3545 John Hopkins Court Suite, #250, San Diego, California 92121 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1), (2) and/or (3); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignor, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Attorney Docket No. ATYR-008/03US 315789-2410

Date: 7/11/2013

By: *Leslie Ann Greene*  
Leslie Ann Greene

State of California )

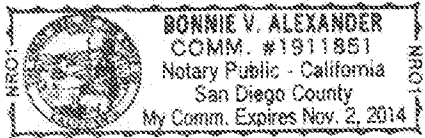
County of San Diego ) ss.

On July 11, 2013, before me, Bonnie Alexander,  
Notary Public, personally appeared Leslie Ann 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.



\_\_\_\_\_  
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: \_\_\_\_\_

Attorney Docket No. ATYR-008/03US 315789-2410

Date: July 10, 2013

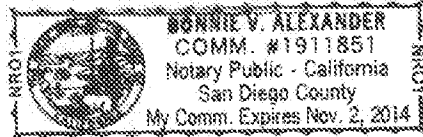
By: *Ryan Andrew Adams*  
Ryan Andrew Adams

State of California )  
 ) ss.  
County of San Diego )

On July 10 2013, before me, Bonnie V Alexander,  
Notary Public, personally appeared Ryan Andrew 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.



Bonnie V Alexander, Notary Public

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: Nov 2, 2014

Attorney Docket No. ATYR-008/03US 315789-2410

Date: July 10, 2013

By: [Signature]

Fei Hong

State of California )  
 County of San Diego ) <sup>ss.</sup>

On July 10, 2013, before me, Bonnie Alexander,  
 Notary Public, 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  
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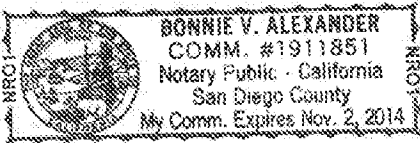
I certify under PENALTY OF PERJURY under the laws of the State of California that  
 the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Bonnie V. Alexander, Notary Public  
 Signature of Notary Public

Place Notary Seal Above

My Commission Expires: NOV 2, 2014







Attorney Docket No. ATYR-008/03US 315789-2410

Date: 10 July 2013

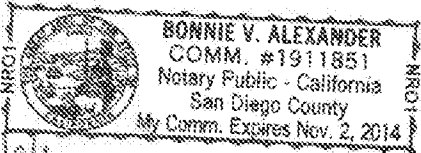
By: [Signature]  
Eva Rebecka Stephanie Armour

State of California )  
 County of San Diego ) ss.  
 On 10 July 2013, before me, Bonnie V Alexander,  
 Notary Public, personally appeared Eva Rebecka Stephanie 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  
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WITNESS my hand and official seal.

Bonnie V Alexander, Notary Public  
 Signature of Notary Public

  
 Place Notary Seal Above

My Commission Expires: Nov 2, 2014

Attorney Docket No. ATYR-008/03US 315789-2410

Date: 7/10/2013

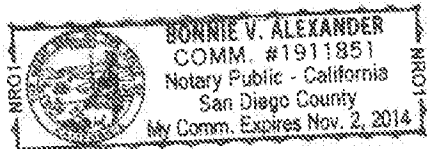
By: Kristi Helen Piehl  
Kristi Helen Piehl

State of California )  
County of San Diego ) ss.

On July 10, 2013, before me, Bonnie V Alexander  
Notary Public, personally appeared Kristi Helen 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  
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WITNESS my hand and official seal.



Bonnie V Alexander, Notary Public

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: Nov 2, 2014

Attorney Docket No. ATYR-008/03US 315789-2410

Date: \_\_\_\_\_

By: \_\_\_\_\_

aTyr Pharma, Inc.

Name:

Title:

State of \_\_\_\_\_ )  
 ) ss.  
County of \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_

Notary Public, personally appeared \_\_\_\_\_

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\_\_\_\_\_  
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Place Notary Seal Above

My Commission Expires: \_\_\_\_\_