

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3048238

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YING JI BUECHLER	09/09/2014
CHI-FANG WU	08/14/2014
JEFFREY GREVE	08/14/2014
JOHN D. MENDLEIN	09/12/2014
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	
Property Type	Number
Application Number:	14360573
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	2064528700
Email:	WTHOMAS@COOLEY.COM
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, D.C. 20004
ATTORNEY DOCKET NUMBER:	ATYR-108/01US
NAME OF SUBMITTER:	MARK E. ROGEL
SIGNATURE:	/Mark E. Rogel/
DATE SIGNED:	10/01/2014
Total Attachments: 10	
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ASSIGNMENT

Ying Ji Buechler, residing at 1343 Cassins Street, Carlsbad, California 92011; Chi-Fang Wu, residing at 2649 Villas Way, San Diego, California 92108; Jeffrey Greve, residing at 1066 Park Hills Road, Berkeley, California 94708; and John D. Mendlein, residing at 1550 Neptune Avenue, Encinitas, California 92024 (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 PEGYLATED ASPARTYL-TRNA SYNTHETASE POLYPEPTIDES, and which is a:

- (1) ☐ provisional application
- (a) ☐ to be filed herewith; or
- (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
- (a) ☐ to be filed herewith; or
- (b) ☒ bearing Application No. 14/360,573, filed December 6, 2012.

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) or (2); 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;

Attorney Docket No. ATYR-108/01US 315789-2444

(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.

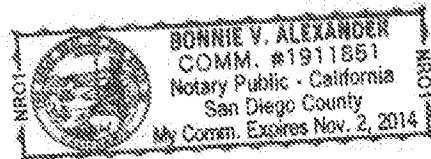
Attorney Docket No. ATYR-108/01US 315789-2444

Date: 9/9/14By: Yr J. Buechler
Ying Ji BuechlerState of California
County of San Diego) ss.

On 9/9/14, before me, Bonnie V. Alexander
Notary Public, personally appeared Ying Ji Buechler,
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-108/01US 315789-2444

Date: _____

By: _____

Chi-Fang Wu

State of _____)
) ss.
County of _____)

On _____, before me, _____,
Notary Public, 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.

Signature of Notary Public

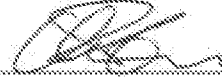
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My Commission Expires: _____

Attorney Docket No. ATYR-108/01US 315789-2444

Date: 8/14/2014

By: _____

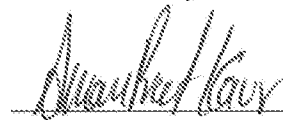


Chi-Fang Wu

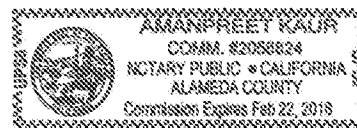
State of California)
County of Alameda) ss.
On 08/14/2014, before me, Amanpreet Kaur,
Notary Public, personally appeared Chi Fang Wu,
who proved to me on the basis of satisfactory evidence, to be the person(s) whose
name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that
he/~~she/they~~ 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: Feb, 22, 2018

Attorney Docket No. ATYR-108/01US 315789-2444

Date: _____

By: _____

Ying Ji Buechler

State of _____)
) ss.
County of _____)

On _____, before me, _____,

Notary Public, 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.



Signature of Notary Public

Place Notary Seal Above

My Commission Expires: _____

Attorney Docket No. ATYR-108/01US 315789-2444

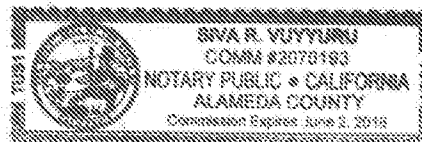
Date: 8/14/14 By: Jeffrey Greve

State of California
County of Alameda) ss.

On Aug 14th 2014, before me, SIVA R VUYURUJ,
Notary Public, personally appeared Jeffrey Michael Greve,
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.



SIVA R VUYURUJ
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: June 2, 2018

Attorney Docket No. ATYR-108/01US 315789-2444

Date: _____

By: _____

John D. Mendlein

State of _____)
) ss.
 County of _____)

On _____, before me, _____,
 Notary Public, 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.

 Signature of Notary Public

Place Notary Seal Above

My Commission Expires: _____

109653570 vt

Attorney Docket No. ATYR-108/01US 315789-2444

Date: 9/12/14

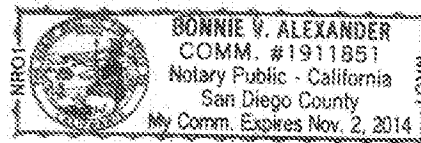
By: _____

John D. Mendlein

State of California)
County of San Diego) ss.
On 9/12/14, before me, Bonnie V Alexander,
Notary Public, personally appeared John D. Mendlein,
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

109653570 v1

Attorney Docket No. ATYR-108/01US 315789-2444

Date: _____

By: _____

Jeffrey Greve

State of _____)
) ss.
County of _____)

On _____, before me, _____,
Notary Public, 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.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: _____