

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3500683

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LESLIE ANN GREENE	07/11/2013
KYLE P. CHIANG	07/11/2013
FEI HONG	07/11/2013
ALAIN PHILIPPE VASSEROT	07/12/2013
JEFFRY D. WATKINS	07/22/2013
CHERYL L. QUINN	07/22/2013
JOHN D. MENDLEIN	07/11/2013
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	
Property Type	Number
Application Number:	14687760
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>	
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Email:	wthomas@cooley.com
Correspondent Name:	WENDY THOMAS
Address Line 1:	1299 PENNSYLVANIA, SUITE 700
Address Line 2:	PATENT DEPARTMENT/ATTN: MARK ROGEL
Address Line 4:	WASHINGTON, D.C. 20004
ATTORNEY DOCKET NUMBER:	ATYR-065/02US 315789-2501
NAME OF SUBMITTER:	MARK E. ROGEL
SIGNATURE:	/Mark E. Rogel/

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DATE SIGNED:	08/26/2015
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Total Attachments: 11

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ASSIGNMENT

PATENT

WHEREAS,

Leslie Ann Greene	13941 Davenport Avenue, San Diego, California 92129;
Kyle P. Chiang	1615 Debann Road, Cardiff, California 92007;
Fei Hong	12646 Spindletop Road, San Diego, California 92129;
Alain Philippe Vasserot	6421 La Paloma Street, Carlsbad, California 92009;
Jeffrey D. Watkins	3442 Fortuna Ranch Road, Encinitas, California 92024;
Cheryl L. Quinn	408 N. 1st Street, # 706, Minneapolis, Minnesota 55401; and
John D. Mendlein	1550 Neptune Avenue, Encinitas, California 92024

(each referred to as "Assignor") have made invention(s) (the "Invention(s)") set forth in applications for patent of the United States, which are:

Application No.	Title	International Filing Date
PCT/US2011/033988 13/643,755	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF CYSTEINYL-TRNA SYNTHETASE	April 26, 2011
PCT/US2011/034205 13/643,738	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF ISOLEUCYL-TRNA SYNTHETASES	April 27, 2011
PCT/US2011/034207 13/643,750	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF THREONYL-TRNA SYNTHETASES	April 27, 2011
PCT/US2011/034387 13/643,753	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF ALANYL-TRNA SYNTHETASES	April 28, 2011
PCT/US2011/034388 13/643,745	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF ASPARAGINYL-TRNA SYNTHETASES	April 28, 2011
PCT/US2011/034626 13/695,229	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF VALYL-TRNA SYNTHETASES	April 29, 2011
PCT/US2011/034838 13/696,042	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF ARGINYL-TRNA SYNTHETASES	May 2, 2011

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PCT/US2011/035056 13/696,044	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF METHIONYL-TRNA SYNTHETASES	May 3, 2011
PCT/US2011/035053 13/696,046	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF PHENYLALANYL-ALPHA-TRNA SYNTHETASES	May 3, 2011
PCT/US2011/034840 13/696,047	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF SERYL-TRNA SYNTHETASES	May 2, 2011
PCT/US2011/035250 13/696,048	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF GLUTAMYL-PROLYL-TRNA SYNTHETASES	May 4, 2011
PCT/US2011/036684 13/698,577	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF LEUCYL-TRNA SYNTHETASES	May 16, 2011
PCT/US2011/038240 13/700,410	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF GLUTAMINYL-TRNA SYNTHETASES	May 26, 2011
PCT/US2011/038813 13/700,998	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF LYSYL-TRNA SYNTHETASES	June 1, 2011
PCT/US2011/036326 13/697,996	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF PHENYLALANYL-BETA-TRNA SYNTHETASES	May 12, 2011
PCT/US2011/035251 13/696,049	INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF P38 MULTI-TRNA SYNTHETASE COMPLEX	May 4, 2011

WHEREAS, aTyr Pharma, Inc., 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 Inventions; the applications for patent identified in the table above; the right to file applications for patent of the United States or other countries on the Inventions; any applications for patent of the United States or other countries claiming priority to these applications; any provisionals 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 applications for patent identified in the table above;
- (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 applications for patent identified in the table above or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and
- (f) any provisionals or other right to recover damages, including royalties, for prior infringements of any applications 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 applications 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 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.

Date: 7/11/2013

By: 
Leslie Ann Greene

I certify that I know or have satisfactory evidence that Leslie Ann Greene signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

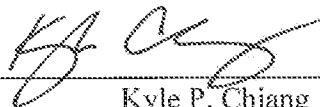
Date 7/11/13
(Type or Print)

Signed at 3545 John Hopkins Ct
Suite 250
San Diego, CA 92131

Bonnie Alexander
(Type or Print Name of Witness)

Bonnie Alexander
(Signature of Witness)

Date: 7/11/2013

By: 
Kyle P. Chiang

I certify that I know or have satisfactory evidence that Kyle P. Chiang signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

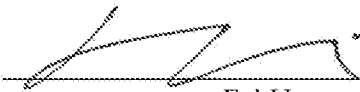
Date 7/11/13
(Type or Print)

Signed at 3545 John Hopkins Ct
Suite 250
SAN Diego CA 92131

Bonnie Alexander
(Type or Print Name of Witness)

Bonnie Alexander
(Signature of Witness)

Date: 7-11-2013

By: 
Fei Hong

I certify that I know or have satisfactory evidence that Fei Hong signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.


Date 7/11/13
(Type or Print)

Signed at 3545 John Hopkinst Ct
Suite 250
SD CA 92121

Bonnie Alexander
(Type or Print Name of Witness)

Bonnie Alexander
(Signature of Witness)

Date: 7/12th, 2013

By: 
Alain Philippe Vasserot

I certify that I know or have satisfactory evidence that Alain Philippe Vasserot signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date 7/12/13
(Type or Print)

Signed at 3545 John Hopkins Ct
San Diego CA 92131

Bonnie Alexander
(Type or Print Name of Witness)

Bonnie Alexander
(Signature of Witness)

Date: July 22, 2013

By: 
Jeffrey D. Watkins

I certify that I know or have satisfactory evidence that Jeffrey D. Watkins signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

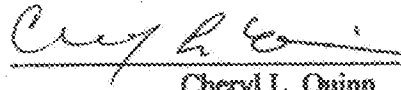
Date 7/22/13
(Type or Print)

Signed at 3541 E John Hopkins Ct
San Diego CA 92131

Bonnie Alexander
(Type or Print Name of Witness)

Bonnie Alexander
(Signature of Witness)

Date: 22 July 2013

By: 
Cheryl L. Quinn

I certify that I know or have satisfactory evidence that Cheryl L. Quinn signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

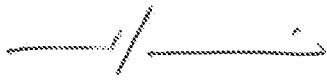
Date 22 July 2013
(Type or Print)

Signed at 408 N 1st Stth 706, Minneapolis, MN

Robert J Buck
(Type or Print Name of Witness)


(Signature of Witness)

Date: 7/11/13

By: 
John D. Mendlein

I certify that I know or have satisfactory evidence that John D. Mendlein signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date 7/11/13
(Type or Print)

Signed at 3545 John Hopkins Ct
San Diego CA 92121

Bonnie Alexander
(Type or Print Name of Witness)

Bonnie Alexander
(Signature of Witness)