

PATENT ASSIGNMENT

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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>Jie Zhou</td><td>07/23/2010</td></tr><tr><td>Ching Fun Lau</td><td>07/23/2010</td></tr><tr><td>Zhiwen Xu</td><td>07/23/2010</td></tr><tr><td>Wing Sze Lo</td><td>07/23/2010</td></tr><tr><td>Kristi Helen Piehl</td><td>07/28/2010</td></tr><tr><td>Leslie Ann Greene</td><td>07/28/2010</td></tr></tbody></table>		Name	Execution Date	Jie Zhou	07/23/2010	Ching Fun Lau	07/23/2010	Zhiwen Xu	07/23/2010	Wing Sze Lo	07/23/2010	Kristi Helen Piehl	07/28/2010	Leslie Ann Greene	07/28/2010
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RECEIVING PARTY DATA															
<table border="1"><tr><td>Name:</td><td>aTyr Pharma, Inc.</td></tr><tr><td>Street Address:</td><td>3565 General Atomics Court</td></tr><tr><td>Internal Address:</td><td>Suite 103</td></tr><tr><td>City:</td><td>San Diego</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>92121</td></tr></table>		Name:	aTyr Pharma, Inc.	Street Address:	3565 General Atomics Court	Internal Address:	Suite 103	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121		
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PROPERTY NUMBERS Total: 1															
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CORRESPONDENCE DATA															
Fax Number: (206)682-6031 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
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ATTORNEY DOCKET NUMBER:	120161.415														

CH \$40.00 12752272

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PATENT
REEL: 024770 FRAME: 0677

NAME OF SUBMITTER:

Mark E. Rogel, J.D.

Total Attachments: 7

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ASSIGNMENT

WHEREAS, we, Jie ZHOU; Ching Fun LAU; Zhiwen XU; Wing Sze LO; Kristi Helen PIEHL and Leslie Ann GREENE (hereinafter referred to as ASSIGNORS), having mailing addresses of Tai Po Tsai Village, 18-1/F, Clear Water Bay, Kowloon, Hong Kong, China; Room 1913, Shek Jing House, Chun Shek Estate, Shatin, New Territories, Hong Kong, China; No. 55, 1/F, Tai Po Tsai Village, Clear Water Bay Road, Kowloon, Hong Kong, China; Room 815, Sui Ming House, Siu Sai Wan Estate, Chai Wan, Hong Kong, China; 5321 Zion Avenue, San Diego, California 92120 and 13941 Davenport Avenue, San Diego, California 92129, respectively, are the joint inventors of an invention entitled "COMPOSITIONS AND METHODS COMPRISING HISTIDYL-tRNA SYNTHETASE SPLICE VARIANTS 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 16, 2010 and assigned Application No. 12/725,272, and for which an International Application was filed on March 16, 2010 and assigned Application No. PCT/US2010/027525, which applications claim the benefit of U.S. Provisional Application Nos. 61/239,747, filed on September 3, 2009, and 61/160,630, filed on March 16, 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, California 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 applications 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 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 letters patent, or for the purpose of protecting title to said invention or letters patent therefor. This assignment is effective as of March 15, 2010.

23-07-2010
Date

Jie ZHOU
Jie ZHOU

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

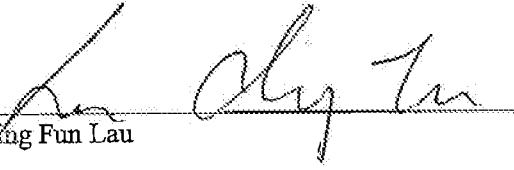
Date 23-7-2010
(Type or Print)
Siu Tze HAK
(Type or Print Name of Witness)

Signed at Hong Kong, China
[Signature]
(Signature of Witness)

Date

23-7-2010

Ching Fun Lau



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

Date

23-7-2010

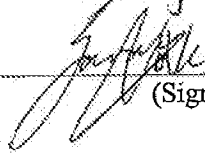
(Type or Print)

Signed at

Hong Kong, China

Siu Tze MAK

(Type or Print Name of Witness)



(Signature of Witness)

2010. July. 23
Date

Zhiwen XU
Zhiwen XU

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

Date 23-7-2010
(Type or Print)
Sin Tze MAK
(Type or Print Name of Witness)

Signed at Hong Kong, China
[Signature]
(Signature of Witness)

23 July 2010
Date

Wing Size LO

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

Date 23-7-2010
(Type or Print)

Siu Tze MAK
(Type or Print Name of Witness)

Signed at Hong Kong, China

[Signature]
(Signature of Witness)

7/28/2010
Date

Kristi Helen Piehl
Kristi Helen PIEHL

State of California

County of San Diego

On July 28, 2010, before me, Theresa A. Davis, Notary Public
(Here insert name and title of the officer)
personally appeared Kristi Helen Piehl,

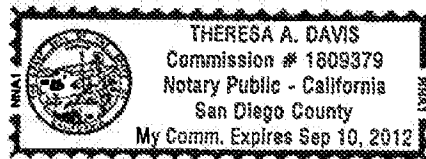
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s),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

(Notary Seal)



Date 7/28/2010

Leslie Ann Greene
Leslie Ann GREENE

State of California

County of San Diego

On July 28 2010, before me, Theresa A. Davis, Notary Public
(Here insert name and title of the officer)
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.

Theresa A. Davis
163256 J.DOC
(128181.415)

(Notary Seal)

