

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5300434

|   |                                   |
|---|-----------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                    |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                        |
| <b>CONVEYING PARTY DATA</b>   |                                   |
| <b>Name</b>   | <b>Execution Date</b>             |
| Thuy-Anh Tran   | 03/06/2009                        |
| Jason B. Ibarra   | 03/09/2009                        |
| Young-Jun Shin  | 03/09/2009                        |
| Brett Ullman  | 03/10/2009                        |
| Ning Zou  | 03/09/2009                        |
| Xi Zeng   | 03/06/2009                        |
| <b>RECEIVING PARTY DATA</b>   |                                   |
| <b>Name:</b>  | Arena Pharmaceuticals, Inc.       |
| <b>Street Address:</b>  | 6154 Nancy Ridge Drive            |
| <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:   | 16181457                          |
| <b>CORRESPONDENCE DATA</b>  |                                   |
| <b>Fax Number:</b>  | (877)769-7945                     |
| <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>   | +49-89-7104102-42                 |
| <b>Email:</b>   | apsi@fr.com                       |
| <b>Correspondent Name:</b>  | ANDREA DORIGO                     |
| <b>Address Line 1:</b>  | FISH & RICHARDSON P.C.            |
| <b>Address Line 2:</b>  | P.O.BOX 1022                      |
| <b>Address Line 4:</b>  | MINNEAPOLIS, MINNESOTA 55440-1022 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 20750-0105005 166.US6.CON         |
| <b>NAME OF SUBMITTER:</b>   | SUZANNE C. O'NEILL                |
| <b>SIGNATURE:</b>   | /Suzanne C. O'Neill/              |
| <b>DATE SIGNED:</b>   | 12/27/2018                        |

**Total Attachments: 7**

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ASSIGNMENT

For valuable consideration, we, Thuy-Anh Tran, of 4833 Fairport Way, San Diego, CA 92130; Jason B. Ibarra, of 7622 Alexander Hills Street, Las Vegas Nevada 89139; Young-Jun Shin, of 11051 Ice Skate Place, San Diego, CA 92126; Brett Ullman, of 3046 40th Street, San Diego, CA 92105; Ning Zou, of 9829 Fieldthorn Street, San Diego, CA 92127; Xi Zeng, of 9589 Gold Coast Dr., No. H12, San Diego, CA 92126; hereby assign to ARENA PHARMACEUTICALS, INC., a corporation of Delaware, having a place of business at 6166 Nancy Ridge Drive, San Diego, CA 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements, which are disclosed in a provisional application for United States Patent, naming us as co-inventors, entitled MODULATORS OF THE PROSTACYCLIN (PG12) RECEPTOR USEFUL FOR THE TREATMENT OF DISORDERS RELATED THERETO, filed November 26, 2008, and assigned U.S. Serial Number 61/200,393, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: 3/06/09

Thuy Anh Tran  
THUY-ANH TRAN

State of California )

County of San Diego )

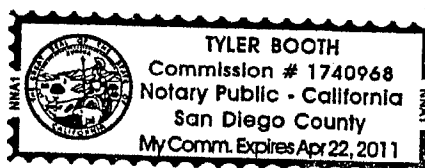
On 03/06/09 before me, Tyler Booth, Notary Public,  
personally appeared THUY-ANH TRAN,

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.

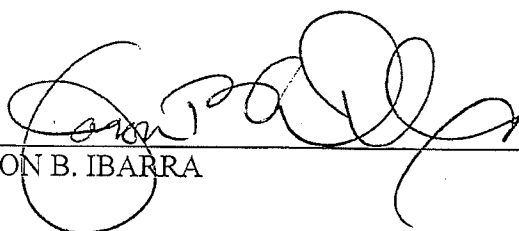
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Tyler Booth  
Signature of Notary Public



DATE: 3/9/09

  
JASON B. IBARRA

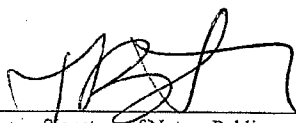
State of California )  
County of San Diego )

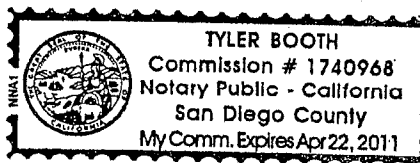
On 03/09/09 before me, Tyler Booth, Notary Public,  
personally appeared JASON B. IBARRA,

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



DATE: 3/09/09

Young-Jun Shin  
YOUNG-JUN SHIN

State of California )

County of San Diego )

On 03/09/09 before me, Tyler Booth, Notary Public,  
personally appeared YOUNG-JUN SHIN,

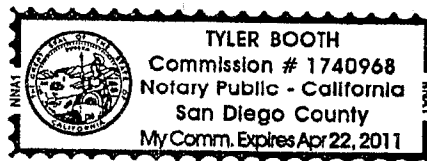
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s),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

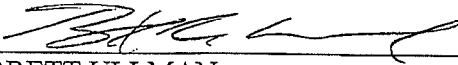
WITNESS my hand and official seal.

Tyler Booth

Signature of Notary Public



DATE: 3.10.09.

  
BRETT ULLMAN

State of California )

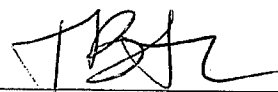
County of SAN DIEGO )

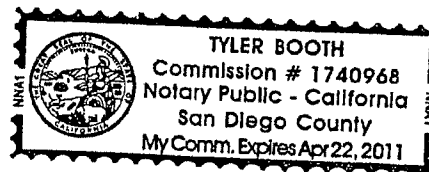
On 03/10/09 before me, Tyler Booth, Notary Public,  
personally appeared BRETT ULLMAN,

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



DATE: 3/8/09

NING ZOU  
NING ZOU

State of California )

County of San Diego )

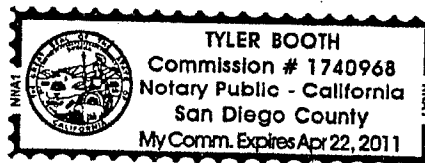
On 03/09/09 before me, Tyler Booth, Notary Public,  
personally appeared NING ZOU,

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.

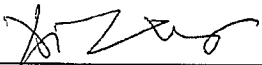
WITNESS my hand and official seal.

Tyler Booth  
Signature of Notary Public





DATE: 03/06/2009

  
XI ZENG

State of California )

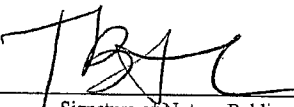
County of San Diego )

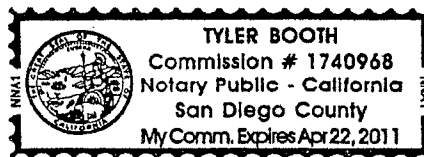
On 03/06/09 before me, Tyler Booth, Notary Public,  
personally appeared \_\_\_\_\_  
XI ZENG

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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Signature of Notary Public



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