

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Kevin Barvian</td><td>05/04/2011</td></tr><tr><td>Gregory Steven Basarab</td><td>05/04/2011</td></tr><tr><td>Madhusudhan Reddy Gowravaram</td><td>05/03/2011</td></tr><tr><td>Sheila Irene Hauck</td><td>05/03/2011</td></tr><tr><td>Fei Zhou</td><td>05/04/2011</td></tr></tbody></table>	Name	Execution Date	Kevin Barvian	05/04/2011	Gregory Steven Basarab	05/04/2011	Madhusudhan Reddy Gowravaram	05/03/2011	Sheila Irene Hauck	05/03/2011	Fei Zhou	05/04/2011	
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>AstraZeneca AB</td></tr><tr><td>Street Address:</td><td>SE-151 85</td></tr><tr><td>Internal Address:</td><td>AstraZeneca AB</td></tr><tr><td>City:</td><td>Sodertalje</td></tr><tr><td>State/Country:</td><td>SWEDEN</td></tr><tr><td>Postal Code:</td><td>SE-151 85</td></tr></table>	Name:	AstraZeneca AB	Street Address:	SE-151 85	Internal Address:	AstraZeneca AB	City:	Sodertalje	State/Country:	SWEDEN	Postal Code:	SE-151 85	
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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>13124889</td></tr></tbody></table>	Property Type	Number	Application Number:	13124889									
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Application Number:	13124889												
CORRESPONDENCE DATA													
Fax Number: (781)839-4121 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 1 781 839 4951													
Email: kalliopei.gantzoudis@astrazeneca.com													
Correspondent Name: AstraZeneca													
Address Line 1: 35 Gatehouse Drive													
Address Line 4: Waltham, MASSACHUSETTS 02451													
ATTORNEY DOCKET NUMBER:	103542-1P US/I												
NAME OF SUBMITTER:	Kalliopei Gantzoudis												
Total Attachments: 3 source=Confirmatory Assignment#page1.tif source=Confirmatory Assignment#page2.tif source=Confirmatory Assignment#page3.tif													

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PATENT
REEL: 026408 FRAME: 0707

THIS CONFIRMATORY ASSIGNMENT is made as of the 13th day of April 2011 (the “**Effective Date**”)

BY AND BETWEEN

BARVIAN, Kevin (a US citizen); BASARAB, Gregory Steven (a US citizen); GOWRAVARAM, Madhusudhan, Reddy (a US citizen); HAUCK, Sheila, Irene (a US citizen); ZHOU, Fei (a CA citizen) of AstraZeneca R&D Boston, 35 Gatehouse Drive, Waltham, MA 02451, United States

(the “**Inventor(s)**”)

AND

ASTRAZENECA PHARMACEUTICALS LP, a Delaware Limited Partnership with offices at 1800 Concord Pike, P.O. Box 15437, Wilmington, Delaware 19850-5437, United States of America (“**AstraZeneca**”)

RECITALS

WHEREAS

- A. The Inventor(s) have made certain inventions (the “**Inventions**”) in respect of which US Application No. 13/124,889 was filed on the 13th day of April 2011 (the “**Patent Application**”).
- B. The Inventor(s) BARVIAN, Kevin; BASARAB, Gregory Steven; GOWRAVARAM, Madhusudhan, Reddy; HAUCK, Sheila, Irene; ZHOU, Fei (name inventor(s)) are employees of AstraZeneca.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the amounts paid to the Inventor(s) pursuant to their contract of employment with AstraZeneca, the Inventor(s) each hereby confirm that by virtue of their employment with AstraZeneca they have assigned, and do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to AstraZeneca absolutely all their right, title and interest in and to the Inventions and the Patent Application, or any continuing or divisional application of the Patent Application in accordance with their contracts of employment.
2. The Inventor(s) each hereby agree with AstraZeneca that their assignment to AstraZeneca includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Patent Application, including all rights to recover damages, profits and injunctive relief for infringement of any of the Patent Application, and the right to file a patent application anywhere in the world claiming convention priority.
3. The Inventor(s) each hereby agree with AstraZeneca that they will execute such further documents and give such assistance at the expense of AstraZeneca as AstraZeneca may require:

- a) to secure the vesting in AstraZeneca of all rights in the Patent Application and in such parties to whom AstraZeneca may assign its rights in the Patent Application;
- b) to defeat any challenge to the validity of and resolve any questions concerning the Patent Application; and
- c) to apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Patent Application, including the right to claim convention priority from such Application and including, without limitation, cooperating in any proceedings involving examinations, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. The Inventor(s) each hereby agree with AstraZeneca that they shall, at the expense of AstraZeneca, execute and sign all such instruments, applications and documents and do all such acts and things as may reasonably be required by AstraZeneca to enable AstraZeneca or its nominee to enjoy the full benefit of the rights assigned by this agreement.

5. AstraZeneca accepts the above assignment.

6. This assignment shall be governed by and construed in accordance with the laws of England and Wales and the parties hereby submit to the exclusive jurisdiction of the English courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

This agreement has been entered into on the date stated at the beginning of it.

Signed at: Waltham, United States

Date: _____

Date: May 11, 2011

Kevin Barvian 5-4-11
1. BARVIAN, Kevin

Gregory Steven Barvian
2. BARVIAN, Gregory Steven

Witnessed by:

Witnessed by:

Kalliopi Gantzoudis
Name: Kalliopi Gantzoudis

Kalliopi Gantzoudis
Name: Kalliopi Gantzoudis

Date: _____

Date: _____

Madhusudhan Gowravaram 5/3/2011
3. GOWRAVARAM, Madhusudhan, Reddy

Sheila L. Hauck May 3, 2011
4. HAUCK, Sheila, Irene

Witnessed by:

Witnessed by:

Kalliopi Gantzoudis
Name: Kalliopi Gantzoudis

Kalliopi Gantzoudis
Name: Kalliopi Gantzoudis

Fei Zhou 5/4/11
5. ZHOU, Fei

Witnessed by:

Kalliopi Gantzoudis
Name: Kalliopi Gantzoudis

Signed at: Waltham, United States

Date: 5/5/11

John Haberman
Signed on behalf of
ASTRAZENECA PHARMACEUTICALS LP
John HABERMAN
Authorised Signatory