

# PATENT ASSIGNMENT

Electronic Version v1.1

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT																		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT																		
<b>CONVEYING PARTY DATA</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>David BARNES</td><td>03/31/2011</td></tr> <tr><td>Rajiv CHOPRA</td><td>03/30/2011</td></tr> <tr><td>Scott Louis COHEN</td><td>03/31/2011</td></tr> <tr><td>Jiping FU</td><td>03/30/2011</td></tr> <tr><td>Mitsunori KATO</td><td>03/31/2011</td></tr> <tr><td>Peichao LU</td><td>03/31/2011</td></tr> <tr><td>Mohindra SEEPERSAUD</td><td>03/31/2011</td></tr> <tr><td>Wei ZHANG</td><td>03/31/2011</td></tr> </tbody> </table>		Name	Execution Date	David BARNES	03/31/2011	Rajiv CHOPRA	03/30/2011	Scott Louis COHEN	03/31/2011	Jiping FU	03/30/2011	Mitsunori KATO	03/31/2011	Peichao LU	03/31/2011	Mohindra SEEPERSAUD	03/31/2011	Wei ZHANG	03/31/2011
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<b>RECEIVING PARTY DATA</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;"><b>Name:</b></td><td>Novartis AG</td></tr> <tr><td><b>Street Address:</b></td><td>Lichtstrasse 35</td></tr> <tr><td><b>City:</b></td><td>Basel</td></tr> <tr><td><b>State/Country:</b></td><td>SWITZERLAND</td></tr> <tr><td><b>Postal Code:</b></td><td>4056</td></tr> </table>		<b>Name:</b>	Novartis AG	<b>Street Address:</b>	Lichtstrasse 35	<b>City:</b>	Basel	<b>State/Country:</b>	SWITZERLAND	<b>Postal Code:</b>	4056								
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<b>PROPERTY NUMBERS Total: 1</b>																			
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<b>CORRESPONDENCE DATA</b>																			
<p>Fax Number: (617)871-3392</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: nibr.maildata@novartis.com</p> <p>Correspondent Name: Katherine Kantorski</p> <p>Address Line 1: Novartis Institutes for BioMedical Resea</p> <p>Address Line 2: 220 Massachusetts Avenue</p> <p>Address Line 4: Cambridge, MASSACHUSETTS 02139</p>																			
<b>ATTORNEY DOCKET NUMBER:</b>	PAT054159-US-NP																		

CH \$40.00 13089764

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**PATENT**

NAME OF SUBMITTER:

Katherine Kantorski

**Total Attachments: 6**

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(joint)

Patent Case PAT054159

### ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

David BARNES	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 100 Technology Square Cambridge, MA 02139 US
Rajiv CHOPRA	citizen of United Kingdom	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 US
Scott Louis COHEN	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 100 Technology Square Cambridge, MA 02139 US
Jiping FU	citizen of China	Novartis Institutes for BioMedical Research, Inc. 250 Massachusetts Avenue Cambridge, MA 02139 US
Mitsunori KATO	citizen of Japan	Novartis Institutes for BioMedical Research, Inc. 100 Technology Square Cambridge, MA 02139 US
Peichao LU	citizen of China	Novartis Institutes for BioMedical Research, Inc. 100 Technology Square Cambridge, MA 02139 US
Mohindra SEEPERSAUD	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 100 Technology Square Cambridge, MA 02139 US
Wei ZHANG	citizen of China	Novartis Institutes for BioMedical Research, Inc. 100 Technology Square Cambridge, MA 02139 US

do hereby sell, assign and transfer to Novartis AG, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, 4056 Basel, Switzerland, (hereinafter referred to as the "ASSIGNEE") and

its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled

Europyridine Compounds and Uses Thereof

and filed in the United States Patent and Trademark Office on \_\_\_\_\_, 20\_\_ and accorded Application Number \_\_\_\_\_\* and/or filed in the RO/ \_\_\_\_\_ on \_\_\_\_\_, 20\_\_ and accorded International Patent Application Number PCT/ \_\_\_\_\_\*, (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed in the United States Patent and Trademark Office on April 21, 2010 and accorded Application Number 61/326491, (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of **ASSIGNEE** or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said **ASSIGNEE** and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made.

\*We hereby authorize **ASSIGNEE** and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEE** or their successors, assigns or legal representatives execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates and applications within the scope of (8) and (9) in **ASSIGNEE** or their successors, assigns or legal representatives, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of **ASSIGNEE** or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) and (6) and all applications within the scope of (8) or (9) and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of **ASSIGNEE** or their successors, assigns or legal representatives.

This Assignment is effective as from the earliest priority date as stated above.

Executed this 31 day of Mar, 2011

David Barnes

L.S.

David Barnes

**ACKNOWLEDGEMENT**

State of Massachusetts )

) s.s.:

County of Middlesex )

On this 31<sup>st</sup> day of March, 2011, personally appeared before me  
David Barnes to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 30 day of March, 2011.

Rajiv Chopra

L.S.

Rajiv Chopra

**ACKNOWLEDGEMENT**

State of Massachusetts )

) s.s.:

County of Middlesex )

On this 30<sup>th</sup> day of March, 2011, personally appeared before me  
Rajiv Chopra to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 31 day of March, 2011

Scott Louis Cohen L.S.  
Scott Louis Cohen

**ACKNOWLEDGEMENT**

State of Massachusetts )  
 ) s.s.:  
County of Middlesex )

On this 31<sup>st</sup> day of March, 2011, personally appeared before me  
Scott Cohen to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 30 day of March, 2011

Jiping Fu L.S.  
Jiping Fu

**ACKNOWLEDGEMENT**

State of Massachusetts )  
 ) s.s.:  
County of Middlesex )

On this 30<sup>th</sup> day of March, 2011, personally appeared before me  
Jiping Fu to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 31 day of March, 2011.

Mitsunori Kato L.S.  
Mitsunori Kato

**ACKNOWLEDGEMENT**

State of Massachusetts )  
 ) s.s.:  
County of Middlesex )

On this 31<sup>st</sup> day of March, 2011, personally appeared before me  
Mitsunori Kato to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 31<sup>st</sup> day of March, 2011.

Peichao Lu L.S.  
Peichao Lu

**ACKNOWLEDGEMENT**

State of Massachusetts )  
 ) s.s.:  
County of Middlesex )

On this 31<sup>st</sup> day of March, 2011, personally appeared before me  
Peichao Lu to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 31<sup>st</sup> day of March, 2011.

Mohindra Seepersaud L.S.  
Mohindra Seepersaud

**ACKNOWLEDGEMENT**

State of Massachusetts )  
 ) s.s.:  
County of Middlesex )

On this 31<sup>st</sup> day of March, 2011 personally appeared before me  
Mohindra Seepersaud to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011

Executed this 31 day of March, 2011.

Wei Zhang L.S.  
Wei Zhang

**ACKNOWLEDGEMENT**

State of Massachusetts )  
 ) s.s.:  
County of Middlesex )

On this 31<sup>st</sup> day of March, 2011, personally appeared before me  
Wei Zhang to me known and known by me to be the same person described  
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)  
own free will for the purpose set forth.

(Seal)

Jessica N. Yao  
Notary Public

Jessica N. Yao  
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Commonwealth of Massachusetts  
My Commission Expires  
May 19, 2011