

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<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>Saskia Maria Brachmann</td><td>02/01/2008</td></tr> <tr><td>Peter Finan</td><td>02/12/2008</td></tr> <tr><td>Christine Fritsch</td><td>02/01/2008</td></tr> <tr><td>Carlos Garcia-Echeverria</td><td>02/04/2008</td></tr> <tr><td>Sauveur-Michel Maira</td><td>02/01/2008</td></tr> <tr><td>Leon Murphy</td><td>02/11/2008</td></tr> <tr><td>Paul Leslie Nicklin</td><td>08/15/2008</td></tr> </tbody> </table>		Name	Execution Date	Saskia Maria Brachmann	02/01/2008	Peter Finan	02/12/2008	Christine Fritsch	02/01/2008	Carlos Garcia-Echeverria	02/04/2008	Sauveur-Michel Maira	02/01/2008	Leon Murphy	02/11/2008	Paul Leslie Nicklin	08/15/2008
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>NOVARTIS AG</td></tr> <tr><td>Street Address:</td><td>Lichtstrasse 35</td></tr> <tr><td>City:</td><td>Basel</td></tr> <tr><td>State/Country:</td><td>SWITZERLAND</td></tr> <tr><td>Postal Code:</td><td>4056</td></tr> </table>		Name:	NOVARTIS AG	Street Address:	Lichtstrasse 35	City:	Basel	State/Country:	SWITZERLAND	Postal Code:	4056						
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CORRESPONDENCE DATA																	
<p>Fax Number: (973)781-8064</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 862-778-8462</p> <p>Email: linda.adams@novartis.com</p> <p>Correspondent Name: Linda Adams</p> <p>Address Line 1: Novartis Pharmaceuticals Corp.</p> <p>Address Line 2: One Health Plaza</p> <p>Address Line 4: East Hanover, NEW JERSEY 07936</p>																	
ATTORNEY DOCKET NUMBER:	50634-US-PCT																

CH \$40.00 12525333

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PATENT
REEL: 023875 FRAME: 0949

NAME OF SUBMITTER:

Linda Adams

Total Attachments: 17

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ASSIGNMENT

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

(1) Saskia Maria BRACHMANN (2) Peter FINAN (3) Christine FRITSCH (4) Carlos GARCIA-ECHEVERRIA (5) Sauveur-Michel MAIRA (6) Leon MURPHY and (7) Paul Leslie NICKLIN, respectively residing at

- (1) Almannengasse 35, CH-4058 Basel, Switzerland
- (2) 82 Village Street, Marblehead MA 01945 USA
- (3) 20B, rue de Bâle, 68730 Ranspach-Le-Bas, France
- (4) Engelgasse 126, 4052 Basel, Switzerland
- (5) 3c, rue de Hombourg, 68440 Habsheim, France
- (6) 207 Mason Terrace, Apt. 1, Brookline MA 02446, USA and
- (7) Tanglewood, West End Lane, Henfield, West Sussex BN5 9RE, Great Britain

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, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (Novartis AG hereinafter referred to as the "ASSIGNEE") in and to (1) all of our inventions and discoveries described in the patent application(s) titled

imidazoquinolines as dual lipid kinase and mTOR inhibitors

and filed in the United States Patent and Trademark Office on _____, 20____ and accorded Application Number _____* and/or filed in the RO/US on 19 February 2007 and accorded International Patent Application Number PC/053402/054286 (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 20 February 2007 and accorded Application Number 60/890,641, (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

(joint)

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.

Executed this _____ day of _____, 20____.

Saskia Maria BRACHMANN L.S.

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20____, personally appeared before me **Saskia Maria BRACHMANN**, 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)

Notary Public

(joint)

Patent Case 50634

Executed this 12th day of FEB, 2008

Peter Finan L.S.
Peter FINAN

ACKNOWLEDGEMENT

Commonwealth of Massachusetts)

County of MIDDLESEX) s.s.:
)

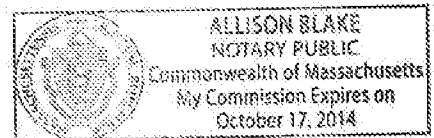
On this 12 day of FEBRUARY, 2008, personally appeared before me **Peter FINAN**, to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Allison Blake
 Notary Public

Executed this _____ day of _____, 20____.

 L.S.
Christine FRITSCH

**ACKNOWLEDGEMENT**

State of _____)
) s.s.:
 County of _____)

On this _____ day of _____, 20____, personally appeared before me **Christine FRITSCH**, 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)

 Notary Public

(joint)

Patent Case 50634

Executed this _____ day of _____, 20__.

_____, L.S.
Carlos GARCIA-ECHEVERRIA

ACKNOWLEDGEMENT

State of _____)
) s.s.:
 County of _____)

On this _____ day of _____, 20__, personally appeared before me, **Carlos GARCIA-ECHEVERRIA**, 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)

 Notary Public

Executed this _____ day of _____, 20__.

_____, L.S.
Sauveur-Michel MAIRA

ACKNOWLEDGEMENT

State of _____)
) s.s.:
 County of _____)

On this _____ day of _____, 20__, personally appeared before me **Sauveur-Michel MAIRA**, 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)

 Notary Public

(joint)

Patent Case 50634

Executed this 11 day of February, 2008

Leon MURPHY L.S.
Leon MURPHY

ACKNOWLEDGEMENT

Commonwealth of Massachusetts)

) s.s.:

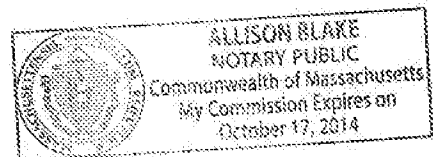
County of Middlesex)

On this 11 day of February, 2008, personally appeared before me **Leon MURPHY**, 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)

Allison Blake
 Notary Public

Executed this _____ day of _____, 20____



 L.S.
Paul Leslie NICKLIN

ACKNOWLEDGEMENT

State of _____)

) s.s.:

County of _____)

On this _____ day of _____, 20____, personally appeared before me **Paul Leslie NICKLIN**, 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)

 Notary Public

(joint)

Patent Case 50634

ASSIGNMENT

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(1) Saskia Maria BRACHMANN (2) Peter FINAN (3) Christine FRITSCH (4) Carlos GARCIA-ECHEVERRIA (5) Sauveur-Michel MAIRA (6) Leon MURPHY and (7) Paul Leslie NICKLIN, respectively residing at

- (1) Almannengasse 35, CH-4058 Basel, Switzerland
- (2) 82 Village Street, Marblehead MA 01945 USA
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Imidazoquinolines as dual lipid kinase and mTOR inhibitors

and filed in the United States Patent and Trademark Office on _____, 20____ and accorded Application Number _____* and/or filed in the RO/US on 16 February 2005 and accorded International Patent Application Number CT/US 2005/054236*, (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 20 February 2007 and accorded Application Number 60/890,641, (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

(joint)

Patent Case 50634

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Executed this _____ day of _____, 20__.

L.S.
Saskia Maria BRACHMANN

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20__, personally appeared before me **Saskia Maria BRACHMANN**, 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)

Notary Public

..... L.S.
Peter FINAN

Commonwealth of Massachusetts)
) s.s.:
County of _____)

On this _____ day of _____, 20____, personally appeared before me **Peter FINAN**, 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)

Notary Public

Executed this _____ day of _____, 20__.

Christine FRITSCH L.S.

State of _____)
) s.s.
County of _____)

On this _____ day of _____, 20____, personally appeared before me **Christine FRITSCH**, 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)

Notary Public

(joint)

Executed this _____ day of _____, 20__.

 Carlos GARCIA-ECHEVERRIA L.S.

ACKNOWLEDGEMENT

State of _____)
) s.s.:
 County of _____)

On this _____ day of _____, 20__, personally appeared before me, **Carlos GARCIA-ECHEVERRIA**, 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)

 Notary Public

Executed this _____ day of _____, 20__.

 Sauveur-Michel MAIRA L.S.

ACKNOWLEDGEMENT

State of _____)
) s.s.:
 County of _____)

On this _____ day of _____, 20__, personally appeared before me **Sauveur-Michel MAIRA**, 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)

 Notary Public **PATENT**

ACKNOWLEDGEMENT

On this _____ day of _____, 20____, personally appeared before me **Leon MURPHY**, 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.

Notary Public


Paul Leslie NICKLIN L.S.

State of _____)
) s.s.:
County of _____)

Notary Public **PATENT**

Attestation

I, the undersigned notary public of Basel, Switzerland, Dr. Andreas C. Albrecht, certify herewith the authenticity of the signature of **Mr. Paul Leslie Nicklin**, born on the 17th (seventeenth) day of January 1967 (nineteen hundred sixty-seven), British citizen, with business address at Novartis Horsham Research Centre, Wimblehurst Road, Horsham, West Sussex RH12 5AB, Great Britain.

The authenticity of the signature was established by comparison.

BASEL, Switzerland, this 21st (twenty-first) day of August 2008 (two thousand and eight)

A. Albrecht,
Notar

Leg. Prot. Nr. *427* /2008



(joint)

Patent Case 50634

ASSIGNMENT

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

(1) Saskia Maria BRACHMANN (2) Peter FINAN (3) Christine FRITSCH (4) Carlos GARCIA-ECHEVERRIA (5) Sauveur-Michel MAIRA (6) Leon MURPHY and (7) Paul Leslie NICKLIN, respectively residing at

- (1) Almannengasse 35, CH-4058 Basel, Switzerland
- (2) 82 Village Street, Marblehead MA 01945 USA
- (3) 20B, rue de Bâle, 68730 Ranspach-Le-Bas, France
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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.

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Saskia Maria BRACHMANN

State of _____)
) s.s.
County of _____)

(Seal)

Notary Public

(joint)

Page 3

Patent Case 50634

Executed this _____ day of _____, 20____

Peter FINAN L.S.

ACKNOWLEDGEMENT

Commonwealth of Massachusetts)

) s.s.:

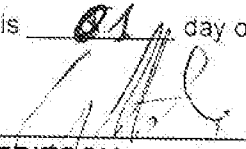
County of _____)

On this _____ day of _____, 20____, personally appeared before me **Peter FINAN**, 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)

Notary Public

Executed this 01 day of February, 2008

 L.S.
Christine FRITSCH

ACKNOWLEDGEMENT

State of _____)

) s.s.:

County of _____)

On this _____ day of _____, 20____, personally appeared before me **Christine FRITSCH**, 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)

Notary Public

(joint)

Executed this 06 day of February, 2008

[Signature] L.S.
 Carlos GARCIA-ECHEVERRIA

ACKNOWLEDGEMENT

State of _____)
) s.s.
 County of _____)

On this _____ day of _____, 20____, personally appeared before me, **Carlos GARCIA-ECHEVERRIA**, 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)

 Notary Public

Executed this 01 Feb day of February, 2008

[Signature] L.S.
 Sauveur-Michel MAIRA

ACKNOWLEDGEMENT

State of _____)
) s.s.
 County of _____)

On this _____ day of _____, 20____, personally appeared before me **Sauveur-Michel MAIRA**, 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)

 Notary Public

(joint)

Patent Case 50634

Executed this _____ day of _____, 20__.

L.S.
Leon MURPHY**ACKNOWLEDGEMENT**

Commonwealth of Massachusetts)

) s.s.:

County of _____)

On this _____ day of _____, 20__, personally appeared before me **Leon MURPHY**, 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)

Notary Public

Executed this _____ day of _____, 20__.

L.S.
Paul Leslie NICKLIN**ACKNOWLEDGEMENT**

State of _____)

) s.s.:

County of _____)

On this _____ day of _____, 20__, personally appeared before me **Paul Leslie NICKLIN**, 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)

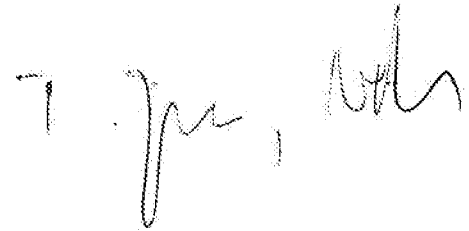
Notary Public

Attestation

I, **Dr. Thomas Gelzer**, the undersigned notary public of Basel, Switzerland, certify herewith the authenticity of the signatures of **Ms. Saskia Maria Brachmann**, German citizen, residing in Basel, Switzerland, of **Ms. Christine Fritsch**, French citizen, residing in Ranspach-Le-Bas, France, of **Mr. Carlos Garcia-Echeverria**, Spanish citizen, residing in Basel, Switzerland, and of **Mr. Sauveur-Michel Maira**, French citizen, residing in Habsheim, France.

The authenticity of the signatures was established by means of comparison.

BASEL, Switzerland, this 2nd (second) day of April 2008 (twothousandandeight).



Dr. Th. Gelzer
Notar

Leg. Prot. Nr. 318 /2008