

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Natalie DALES</td><td>06/18/2009</td></tr> <tr><td>Zaihui ZHANG</td><td>06/09/2009</td></tr> <tr><td>Jianmin FU</td><td>06/10/2009</td></tr> <tr><td>Duanjie HOU</td><td>06/12/2009</td></tr> <tr><td>Shaoyi SUN</td><td>06/09/2009</td></tr> <tr><td>Vishnumurthy KODUMURU</td><td>07/16/2009</td></tr> <tr><td>Natalia POKOROVSKAIA</td><td>06/11/2009</td></tr> </tbody> </table>		Name	Execution Date	Natalie DALES	06/18/2009	Zaihui ZHANG	06/09/2009	Jianmin FU	06/10/2009	Duanjie HOU	06/12/2009	Shaoyi SUN	06/09/2009	Vishnumurthy KODUMURU	07/16/2009	Natalia POKOROVSKAIA	06/11/2009
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CORRESPONDENCE DATA																	
<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>																	
ATTORNEY DOCKET NUMBER:	PAT052727-US-PCT																

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PATENT

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NAME OF SUBMITTER:

Katherine Kantorski

Total Attachments: 19

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(joint)

Patent Case 52727-WO-PCT

ASSIGNMENT

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

Natalie DALES	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 400 Technology Square Cambridge, MA 02139 USA
Zaihui ZHANG	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Jianmin FU	citizen of United States of America	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Duanjie HOU	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Shaoyi SUN	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Vishnumurthy KODUMURU	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada

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 to Xenon Pharmaceuticals Inc., a company organized under the laws of Canada, of 3650 Gilmore Way, Burnaby, BC V5G 4W8, Canada (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

Organic Compounds

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 June 27, 2008 and accorded Application Number 61/076443, (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

PATENT

REEL: 026562 FRAME: 0613

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 18 day of June, 2009

N. Dales

L.S.

Natalie Dales

ACKNOWLEDGEMENT

State of MASSACHUSETTS)

County of MIDDLESEX) s.s.:

On this 18 day of JUNE, 2009 personally appeared before me

NATALIE DALES to me known and known by me to be the same person described
and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
will for the purpose set forth.

Allison Blum

Notary Public



PATENT

REEL: 026562 FRAME: 0614

Executed this _____ day of _____, 20__.

Zaihui Zhang L.S.

ACKNOWLEDGEMENT

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

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

Jianmin Fu L.S.

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me _____ 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.
Duanjie Hou

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20__, personally appeared before me _____ 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.

(Sea)

Notary Public

Executed this _____ day of _____, 20_____.

Shaoyi Sun L.S.

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20_____, personally appeared before me _____ 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.

(Sea)

Notary Public

Executed this _____ day of _____, 20__.

_____ L.S.
Vishnumurthy Kodumuru

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me _____
_____ 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 52727-WO-PCT

ASSIGNMENT

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

Natalie DALES	citizen of United States of America	Novartis Institutes for BioMedical Research, Inc. 400 Technology Square Cambridge, MA 02139 USA
Zaihui ZHANG	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Jianmin FU	citizen of United States of America	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Duanjie HOU	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Shaoyi SUN	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Vishnumurthy KODUMURU	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada
Natalia POKROVSKAIA	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada

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 to Xenon Pharmaceuticals Inc., a company organized under the laws of Canada, of 3650 Gilmore Way, Burnaby, BC V5G 4W8, Canada (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

Organic Compounds

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 June 27, 2008 and accorded Application Number 61/076443, (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

PATENT

REEL: 026562 FRAME: 0618

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.

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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 _____ day of _____, 20____.

Natalie Dales L.S.

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me _____
_____ 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 09 day of June, 2009

Zaihui Zhang L.S.
Zaihui Zhang

ACKNOWLEDGEMENT

City of Burnaby)
Province of BC) s.s.:

On this 09th day of June, 2009, personally appeared before me
Zaihui Zhang to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that he executed the same of his own
free will for the purpose set forth.

(Seal)

Thong Ngoc Trinh
THONG NGOC TRINH
BARRISTER & SOLICITOR
Notary Public in and for the Province of British Columbia
My commission is for as long as I remain a practicing
Member of the Law Society of British Columbia

Executed this 10th day of June, 2009

Jianmin Fu L.S.
Jianmin Fu

ACKNOWLEDGEMENT

City of Burnaby)
) s.s.:
Province of BC)

On this 10th day of June, 2009, personally appeared before me
Jianmin Fu to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that he executed the same of his own
free will for the purpose set forth.

(Seal)

Thong Ngoc Trinh

THONG NGOC TRINH
BARRISTER & SOLICITOR

Notary Public in and for the Province of British Columbia
My commission is for as long as I remain a practicing
Member of the Law Society of British Columbia

Executed this 12 day of June, 2009

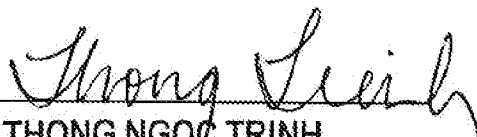
Duanjie Hou L.S.
Duanjie Hou

ACKNOWLEDGEMENT

City of Burnaby)
) s.s.:
Province of BC)

On this 12th day of June, 2009, personally appeared before me
Duanjie Hou to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that he executed the same of his own
free will for the purpose set forth.

(Seal)


THONG NGOC TRINH
BARRISTER & SOLICITOR
Notary Public in and for the Province of British Columbia
My commission is for as long as I remain a practicing
Member of the Law Society of British Columbia

Executed this 09 day of June, 2009

Shaoyi Sun L.S.
Shaoyi Sun

ACKNOWLEDGEMENT

City of Burnaby)
Province of BC) s.s.:

On this 09th day of June, 2009, personally appeared before me
Shaoyi Sun to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that he executed the same of his own
free will for the purpose set forth.

(Seal)

Thong Trinh
THONG NGOC TRINH
BARRISTER & SOLICITOR
Notary Public in and for the Province of British Columbia
My commission is for as long as I remain a practicing
Member of the Law Society of British Columbia

Executed this _____ day of _____, 20____.

Vishnumurthy Kodumuru

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me _____ to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that he executed the same of his own free will for the purpose set forth.

(Seal)

Notary Public

Executed this 11 day of June, 2009

N. Pokorovskaia L.S.
Natalia Pokorovskaia

ACKNOWLEDGEMENT

City of Burnaby)
) S.S.:
Province of BC)

On this 11th day of June, 2009, personally appeared before me
Natalia Pokorovskaia to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that she executed the same of her own
free will for the purpose set forth.

(Seal)



THONG NGOC TRINH
BARRISTER & SOLICITOR

Notary Public in and for the Province of British Columbia
My commission is for as long as I remain a practicing
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Organic Compounds

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

Executed this _____ day of _____, 20____.

_____, L.S.
Natalie Dales

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me _____ 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____

Zaihui Zhang L.S.

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20__, personally appeared before me _____ 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

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Jianmin Fu L.S.

ACKNOWLEDGEMENT

State of _____)
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County of _____)

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(Seal)

Notary Public

Executed this _____ day of _____, 20____.

Duanjie Hou L.S.

ACKNOWLEDGEMENT

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

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

Shaoyi Sun L.S.

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me
_____ 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 16 day of July, 2009

K. Vishnumurthy L.S.
Vishnumurthy Kodumuru

ACKNOWLEDGEMENT

State of MASSACHUSETTS)
County of MIDDLESEX) s.s.:

On this 16 day of JULY, 2009, personally appeared before me
VISHNUMURTHY KODUMURU 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.



Allison Blake
Notary Public

Executed this _____ day of _____, 20____.

Natalia POKROVSKAIA L.S.

ACKNOWLEDGEMENT

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

On this _____ day of _____, 20____, personally appeared before me
_____ 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