### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

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

### **RECEIVING PARTY DATA**

Name:	Xenon Pharmaceuticals Inc.		
Street Address:	3650 Gilmore Way		
Internal Address:	British Columbia		
City:	Burnaby		
State/Country:	CANADA		
Postal Code:	V5G 4W8		

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13000413

### **CORRESPONDENCE DATA**

Fax Number: (617)871-3392

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: nibr.maildata@novartis.com

Correspondent Name: Katherine Kantorski

Address Line 1: Novartis Institutes for BioMedical Resea

Address Line 2: 220 Massachusetts Avenue

Address Line 4: Cambridge, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER: PAT052727-US-PCT PATENT

501589027 REEL: 026562 FRAME: 0611

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NAME OF SUBMITTER:	Katherine Kantorski				
Total Attachments: 19					
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### **ASSIGNMENT**

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

Natalie DALES	citizen of United States of America	dequacy of which are hereby acknowledged Novartis Institutes for BioMedical Research, Inc.		
	Willeutra			
		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 Burneby, 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 Unit	ted States Patent and Trademark Office	on	20 and accorded Ap	olication
Number	* and/or filed in the RO/	on	. 20 and accorde	ed
International Paten	t Application Number PCT/	*, (2) the	patent application(s) id	lentified
in (1), (3) all nations applications in all o application filed in t Application Number States patent application of Industrial Models as becomes a signator application, under 3 discoveries in the naccordance with ap States patent applicator any national stages	al stages of any international patent app ountries and regions claiming the priority he United States Patent and Trademark of 61/076443, (5) for all patent application cation identified in (4) in all countries and crial Property, the Inter-American Conver and all other international agreements to ry and, if the United States patent application (5 USC 119(e) (including the right to file ames of ASSIGNEE or their designees of plicable law in all countries and regions) cation or international patent application of any international application identifier	dication identified in yof the provisional office on June 27, ons, all rights of price regions under the nation relating to Investion identified in (4 patent applications or in our names, at (6) all continuation designating the Undin (1) and any par	n (1), (4) all other pater or non-provisional pater. 2008 and accorded ority based upon the Ue Paris Convention for rentions, Patents, Desistates now is or hereaft 4) is a provisional paters on said inventions and their election and in their elections of any nited States identified in their applications withing the said inventions and divisions of any nited States identified in their applications withing the said in their applications withing the said applications withing the said applications withing the said according to the said applications withing the said according to the said acco	nt ent nited the gns, and er nt d / United n (1),
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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 sate, 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 July	<u>e</u> , 20 <u>0</u> °)
-Males	
Natalie Dales	
ACKNOWLEDGEMENT	
State of MASS ACHUETT )	
County of MIDD LEFEY ) s.s.:	
	20 % personally appeared before me
MANUSCON ALLE DAVES	_ to me known and known by me to be the same person described
in the purpose set forth.	ment and acknowledged that (s)he executed the same of his (her)  Control of the same of his (her)  Notary Public

Executed this	_ day of	, 20
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Zaihui Zhang		· · · · · · · · · · · · · · · · · · ·
ACKNOWLEDGEMENT	ř	
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in and who executed the own free will for the purp	foregoing Assign	to me known and known by me to be the same person described nment and acknowledged that (s)he executed the same of his (her)
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		Notary Public
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Jianmin Fu		L.S.
ACKNOWLEDGEMENT		
State of		
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On this day c	of	20, personally appeared before me
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Duanjie Hou		L.S.
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ACKNOWLEDGEMENT		
State of	)	
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Shaoyi Sun		
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Executed this	day of	
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Vishnumurthy Kodumuru	***************************************	
ACKNOWLEDGEMENT		
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County of	) s.s.: )	
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#### **ASSIGNMENT**

For good a	and valuable	consideration,	the receipt and	adequacy of which	n are hereby a	cknowledged, we
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Natalie DALES	citizen of United States of America	adequacy of which are hereby acknowledge Novartis Institutes for BioMedical		
	America	Research, Inc.		
		400 Technology Square		
		Cambridge, MA 02139		
		USA		
Zaihui ZHANG	cilizen 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		

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 Pharmaceuticais 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

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and filed in the United States Patent and Trademark Office on, 20 and accorded Application						
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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	day of		
			L.S.
Natalie Dales			
ACKNOWLEDG	SEMENT		
State of			
County of	) s.	<b>S</b> .:	
County of			
On this	day of	, 20_	personally appeared before me
		to me	known and known by me to be the same person described
	uted the foregoing As the purpose set forth.	signment a	and acknowledged that (s)he executed the same of his (her)
(Seal)			
			Notary Public

Executed this 6 9 day of June 2009
Zaihui Zhang L.s.
ACKNOWLEDGEMENT
city of Tzurraby,
Province of <u>BC</u> ) s.s.:
On this UTH day of JUIC 20 personally appeared before me Zainui Znang 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 Lient
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.
ACKNOWLEDGEMENT
cayor <u>Burnaby</u>
Province of <u>FC</u> )s.s.:
On this 10 <sup>th</sup> day of 1000, bersonally appeared before me 1001111 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.
Thong Leint
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
Duamje Hay
Duanjie Hou
CKNOWLEDGEMENT
sity of 13umaby
rovince of <u>SC</u> ) s.s.:
on this 12th day of June, 200, bersonally appeared before me
to me known and known by me to be the same person described and who executed the foregoing Assignment and acknowledged that he executed the same of his own see will for the purpose set forth.
Seal) Thona Leil
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	lay of		, 20
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Vishnumurthy Kodumuru			
ACKNOWLEDGEMENT			
State of			
County of	) s.s.: )		
On this day of		, 20	_, personally appeared before me
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			Notary Public

Executed this// day of
Natalia Pokorovskaja L.S.
ACKNOWLEDGEMENT
city of Burnaby)
City of <u>Rurnaky</u> )  Province of <u>SC</u> )  s.s.:
On this 11+h day of June, 20 personally appeared before me Natalia POKOYOVS Kaia 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) Thoug Link
THONG NGOC TRINH
BARRISTER & SOLICITOR  Notary Public in and for the Province of British Columbia

PATENT REEL: 026562 FRAME: 0626

My commission is for as long as I remain a practicing Member of the Law Society of British Columbia

### **ASSIGNMENT**

For good and valuable	consideration, the receipt and	adequacy of which are hereby acknowledged, we
Natalie DALES	citizen of United States of	Novartis Institutes for BioMedical

Natalie DALES	citizen of United States of America	adequacy of which are hereby acknowled Novartis Institutes for BioMedical		
	America	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		
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Shaoyi SUN	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada		
Vishnumurthy KÖDÜMÜRÜ	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada		
Natalia POKROVSKAJA	citizen of Canada	Xenon Pharmaceuticals Inc. 3650 Gilmore Way Burnaby, BC V5G 4W8 Canada		

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### Organic Compounds

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application, under 35 U discoveries in the name	SC 119(e) (including the right to file as of <b>ASSIGNEE</b> or their designees	patent app or in our na	lications on said inventions and ames, 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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This Assignment is effective as from the earliest priority date as stated above.

Executed this _	day	of		, 26
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Natalie Dales				
ACKNOWLED	GEMENT			
State of		<b>)</b>		
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oregoing Assig: se set forth.	nment and acknowledged that (s)he executed the same of his (her)
	Notary Public
	oregoing Assigned See Set forth.  day of

Executed this 16 day of	July 2009
K 23 more thy Vishnumurthy Kodumuru	L.S.
ACKNOWLEDGEMENT	
State of MASSACHUSTIS  County of MIDDICST X	<b>&gt;</b>
County of MIDDLEST X	) s.s.: ):
On this 6 day of July VISANUMURNY KODUMURU	201 personally appeared before me to me known and known by me to be the same person described
in and who executed the foregoing the purpose set fo	Assignment and acknowledged that (s)he executed the same of his (her)
	<u> </u>
Executed this day of	, 20
	L,S.
Natalia POKROVSKAIA	<u> </u>
ACKNOWLEDGEMENT	
State of	(
County of	
On this day of	, 20_, personally appeared before me
in and who executed the foregoing own free will for the purpose set for	to me known and known by me to be the same person described Assignment and acknowledged that (s)he executed the same of his (her) th.
(Seal)	•
	Notary Public

**RECORDED: 07/08/2011**