PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Moise Azria	09/12/2007
Yatindra Joshi	09/17/2007
Rosario LoBrutto	09/17/2007
Linda Mindeholm	09/14/2007
Ashish Bipin Patel	09/12/2007

RECEIVING PARTY DATA

Name:	Novartis AG
Street Address:	Lichtstrasse 35
City:	Basel
State/Country:	SWITZERLAND
Postal Code:	4056

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12377401

CORRESPONDENCE DATA

Fax Number: 9737818064

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

Phone: 862-778-5806

Email: denise.cooper@novartis.com

Correspondent Name: David Kurlandsky

Address Line 1: Novartis Pharmaceuticals Corporation

Address Line 2: One Health Plaza, Bldg 101

Address Line 4: East Hanover, NEW JERSEY 07936

NAME OF SUBMITTER: Denise R. Cooper

Total Attachments: 9

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PATENT REEL: 029188 FRAME: 0290 H \$40 00 123774

502106445



ASSIGNMENT

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

Moise Azria

residing at

Bundesplatz 6

Basel 4054 Switzerland

Yatindra Joshi

residing at

38 Walker Drive

Princeton, New Jersey 08540

Rosario LoBrutto

residing at

6 Van Tassel Court

Highland Mills, NewYork 10930

Linda Mindeholm

residing at

35A rue Haute

Bettlach 68480

France

Ashish Bipin Patel

residing at

85 Franklin Avenue

West Orange, New Jersey 07052,

do hereby sell, assign and transfer to **Novartis AG**, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, Basel, Switzerland 4056, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (hereinafter referred to collectively as the "**ASSIGNEES**") in and to (1) all of our inventions and discoveries described in the patent provisional or non-provisional patent application(s) titled

PHARMACEUTICAL COMPOSITIONS COMPRISING HGH FOR ORAL DELIVERY

and filed in the United States Patent and Trademark Office on * and/or filed in the RO/ US accorded Application Number on August 28, 2007 and accorded International Patent Application Number PCT/US07/76932*, (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 August 31, 2006 and accorded Application Number 60/824,140, (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 ASSIGNEES 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 d 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 **ASSIGNEES** 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.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** or their successors, assigns or legal representatives.

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

Executed this	day of	, 20	· ·		
		L.S.			
Moise Azria					
	and the second second				
ACKNOWLEDGEMEN	τ .				
State of)				
) s.s.:				
County of)				
On this					
to me known and know					
Assignment and acknow	wledged that (s)he	executed the sar	ne of his (her) own	free will for the purp	ose set
forth.					
(Seal)					
•			No	tary Public	-

Executed this day of day of sept, 2	0 <u>0 "7</u> .
Yatindra Joshi L.S.	
ACKNOWLEDGEMENT	
State of $New Serse $)) s.s.: County of $Marris$)	
On this day of day of 20 7 me known and known by me to be the same person of Assignment and acknowledged that (s)he executed the forth.	iccombca in and mile executed the leregoing
(Seal)	The H Cadman
	Notary Public
Executed this 17th day of 50pt, 2	LINDA K. ADAMS A Notary Public of New Jersey My Commission Expires March 28, 2009
Rosario LoBrutto L.S.	
ACKNOWLEDGEMENT	
State of <u>Maw FRSEY</u>) State of <u>Maw FRSEY</u>) County of <u>Marris</u>)	
On this day of	
(Seal)	Dill X Cellan
	Notary Public LINDA K. ADAMS A Notary Public of New Jersey My Commission Expires March 28, 2009

PATENT

REEL: 029188 FRAME: 0294

Executed this	day of	, 20	 •		
		L.S.			
Linda Mindeholm					
ACKNOWLEDGEME	NI				
State of					
• the of) s.s.: `				
County of	/				•
On this	day of	20 ners	sonally appeared be	efore me Linda	
Mindeholm to me kno	own and known by me	to be the same	person described in	and who execu	uted the
foregoing Assignment	and acknowledged th	nat (s)he execute	d the same of his (I	ner) own free wi	II for the
purpose set forth.					
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Thath	10				
3000		L.S.			
Ashish Bipin Patel					
ACKNOWLEDGEME	NT				
State of Niew VE	<u>esev</u>)				
A d) s.s.:				
County of MORRI	<u>s</u>)				
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			Budax	- Clda	mo
			Nota	ary Public	

LINDA K. ADMIS
A Notary Public of New Jersey
My Commission Expires March 28, 2009



ASSIGNMENT

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

Moise Azria

residing at

Bundesplatz 6

Basel 4054 Switzerland

Yatindra Joshi

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38 Walker Drive

Princeton, New Jersey 08540

Rosario LoBrutto

residing at

6 Van Tassel Court

Highland Mills, New York 10930

Linda Mindeholm

residing at

35A rue Haute

Bettlach 68480 France

Ashish Bipin Patel

residing at

85 Franklin Avenue

West Orange, New Jersey 07052,

do hereby sell, assign and transfer to **Novartis AG**, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, Basel, Switzerland 4056, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (hereinafter referred to collectively as the "**ASSIGNEES**") in and to (1) all of our inventions and discoveries described in the patent provisional or non-provisional patent application(s) titled

PHARMACEUTICAL COMPOSITIONS COMPRISING HGH FOR ORAL DELIVERY

and filed in the United States Patent and Trademark Office on 20 and accorded Application Number _____ * and/or filed in the RO/ US on August 28, 2007 and accorded International Patent Application Number PCT/US07/76932 * (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 August 31, 2006 and accorded Application Number 60/824,140, (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 ASSIGNEES 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

PATENT

REEL: 029188 FRAME: 0296

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 **ASSIGNEES** 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.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** or their successors, assigns or legal representatives.

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

Executed this 12 Hh day of September 20 0 +	
leions Airez L.S.	
Moise Azria	
ACKNOWLEDGEMENT	
State of)	
) s.s.:	
County of)	
On this day of, 20, person to me known and known by me to be the same person described Assignment and acknowledged that (s)he executed the same forth.	subed it allo with executed the lorgania
(Seal)	Notary Public

Executed this	day of	, 20		
	*			
		L.S.		
Yatindra Joshi				
ACKNOWLEDGEMEN	T			
State of		•		
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On this	day of	_, 20, personal	ly appeared before me	Yatindra Joshi t
me known and known b	ov me to be the same	e person described in	and who executed the	roregoing
Assignment and acknown forth.	wledged that (s)ne ex	ecuted the same of t	his (her) own free will fo	i tile purpose ser
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			Notary Public	
Executed this	day of	, 20		
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Rosario LoBrutto				
ACKNOWLEDGEMEN	IT			
State of)			
) s.s.:			
County of)			
On this	day of	20 persona	ally appeared before me	Rosario
LoBrutto to me known	n and known by me to	be the same persor	n described in and who (executed the
foregoing Assignment	and acknowledged th	nat (s)he executed the	e same of his (her) own	free will for the
purpose set forth.				
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		·	Notary Public	3

Executed this 14 H day of Steptembe, 200 +.	
Melflall L.S.	
Linda Mindeholm	•
ACKNOWLEDGEMENT	
State of)	
) s.s.:	
County of)	
On this day of, 20, personally a	ppeared before me Linda
Mindeholm to me known and known by me to be the same person of foregoing Assignment and acknowledged that (s)he executed the same	described in and who executed the
purpose set forth.	
(Soci)	
(Seal)	
	Notary Public
Executed this day of, 20	
L.S.	
Ashish Bipin Patel	
ACKNOWLEDGEMENT	
State of)	
) s.s.:	
County of)	
On this day of, 20, personally a Patel to me known and known by me to be the same person described.	appeared before me Ashish Bipin
Patel to me known and known by me to be the same person described. Assignment and acknowledged that (s)he executed the same of his	bed in and who executed the foregoing (her) own free will for the purpose set
forth.	And A service of the
(Seal)	
(Seal)	
	Notary Public

Attestation

I, the undersigned notary public of Basel, Switzerland, certify herewith the authenticity of the signatures of **Mr. Moise Azria**, born on the 1st (first) day of January 1936 (nineteen hundred thirty-six), citizen of France and Switzerland, residing in Basel, Switzerland; and of **Ms. Linda Mindeholm**, born on the 13th (thirteenth) day of March 1953 (nineteen hundred fifty-three), citizen of Denmark, residing in Bettlach, France.

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

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

The state of the s

Dr. R.M. Müller

(). () (-) Noky

Leg.Prot.Nr. 1 /2008

PATENT REEL: 029188 FRAME: 0300

RECORDED: 10/25/2012