

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
Zhuoliang CHEN	11/07/2006
Sushil Kumar SHARMA	11/22/2006
Christopher STRAUB	11/07/2006
Mark G. CHAREST	11/07/2006
Feng HE	11/16/2006
Run-Ming David WANG	11/07/2006
Leigh ZAWEL	11/07/2006
Christine Hiu-Tung CHEN	11/07/2006
Miao DAI	10/10/2006
Huangshu LEI	10/10/2006
Ly PHAM	11/07/2006
Fan YANG	11/07/2006

## 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:	12376057

## CORRESPONDENCE DATA

Fax Number: (617)871-3392

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

Phone: 617.871.4145

Email: ryan.dee@novartis.com

PATENT

500771023

REEL: 022199 FRAME: 0298

CH \$40.00 12376057

Correspondent Name: Mark Baron  
Address Line 1: 220 MASSACHUSETTS AVENUE  
Address Line 2: Novartis Institutes for BioMedical Resea  
Address Line 4: Cambridge, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER:

50295-US-PCT

NAME OF SUBMITTER:

Mark Baron

Total Attachments: 8

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### ASSIGNMENT

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

Zhuoliang Chen	residing at	20 Sargent Road Belmont, Massachusetts 02476
Sushil Kumar Sharma	residing at	9 Bakley Terrace West Orange, New Jersey 07052
Christopher Straub	residing at	16 Heritage Lane Stow, Massachusetts 01775
Mark G. Charest	residing at	58 Regent Street Cambridge, Massachusetts 02138
Feng He	residing at	276 Massachusetts Avenue, Apt. 311 Arlington, Massachusetts 02474
Run-Ming David Wang	residing at	36 Munroe Street Somerville, Massachusetts 02143
Leigh Zawel	residing at	13 Patriots Way Hingham, Massachusetts 02043
Christine Hiu-Tung Chen	residing at	22 Marivista Avenue Waltham, Massachusetts 02451
Miao Dai	residing at	22 Tisdale Drive Dover, Massachusetts 02030
Huangshu Lei	residing at	6 Jacqueline Road Waltham, Massachusetts 02139
Ly Pham	residing at	185 Brattle Street Arlington, Massachusetts 02474
Fan Yang	residing at	70 Peach Orchard Road Burlington, Massachusetts 01803,

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 except Austria and to Novartis Pharma GmbH, a company organized under the laws of Austria, of Brunner Strasse 59, 1230 Vienna, Austria, and its successors, assigns and legal representatives, all of our right, title and interest for Austria (Novartis AG and Novartis Pharma GmbH) 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

### ORGANIC COMPOUNDS

and filed in the United States Patent and Trademark Office on **August 2, 2006** and accorded **Application Number 60/835,000\*** (2) the patent application(s) identified in (1), (3) the

right to file patent applications on said inventions and discoveries in the names of **ASSIGNEES** or their designees or in our name, at their election and in accordance with applicable law in all countries and regions, (4) for all patent applications, all rights of priority based upon the patent application identified in (1) 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 patent application identified in (1) is a provisional patent application, under 35 USC 119(e), (5) all patent applications in all countries and regions claiming the priority of the patent application identified in (1) and only one or more inventions and/or discoveries disclosed in said patent application (including national stages of any international patent application), (6) all continuations and divisions of any non-provisional patent application identified in (1) and any patent application within the scope of (5) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2), (5) 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 **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 (5) 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 required 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 provisional or non-provisional patent application(s) when notified thereof.

Executed this 7 day of Nov, 2006.

Zhuoliang Chen L.S.  
Zhuoliang Chen

# ACKNOWLEDGEMENT

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

On this 7<sup>th</sup> day of November, 2006, personally appeared before me Zhuoliang Chen 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)

Jennifer Clark  
Notary Public JENNIFER CLARK  
NOTARY PUBLIC  
COMMONWEALTH OF MASSACHUSETTS  
My Commission Expires May 18, 2012

Executed this 22<sup>nd</sup> day of Nov, 2006.

Sushil Kumar Sharma L.S.  
Sushil Kumar Sharma

# ACKNOWLEDGEMENT

State of New Jersey )  
 ) s.s.:  
County of Bergen )

On this 22<sup>nd</sup> day of November, 2006, personally appeared before me Sushil Kumar Sharma 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)

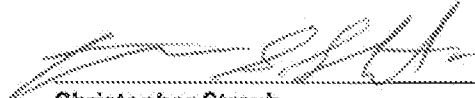
Margaret M. Lee  
Notary Public



PATENT

REEL: 022199 FRAME: 0302

Executed this 7 day of November, 2006.

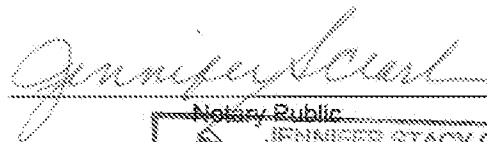
  
 Christopher Straub L.S.

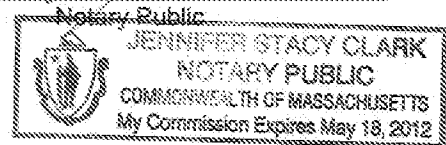
# ACKNOWLEDGEMENT

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

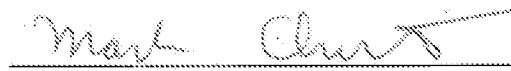
On this 7<sup>th</sup> day of November, 2006, personally appeared before me **Christopher Straub** to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)





Executed this 7 day of November, 2006.

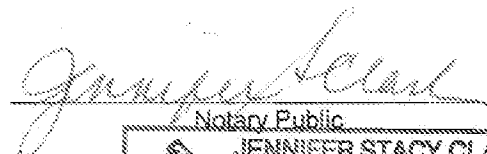
  
 Mark G. Charest L.S.

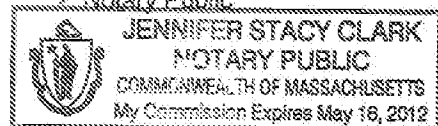
# ACKNOWLEDGEMENT

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

On this 7<sup>th</sup> day of November, 2006, personally appeared before me **Mark G. Charest** 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)





Executed this 16th day of November, 2006.

Feng He L.S.  
Feng He

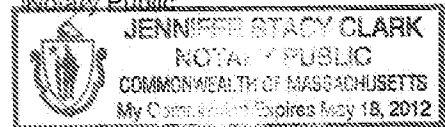
# ACKNOWLEDGEMENT

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

On this 16th day of November, 2006, personally appeared before me Feng He 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)

Jennifer Stacy Clark  
Notary Public



Executed this 7 day of November, 2006.

Run-Ming David Wang L.S.  
Run-Ming David Wang

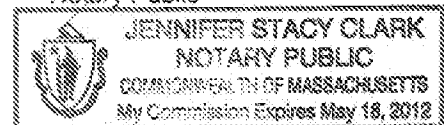
# ACKNOWLEDGEMENT

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

On this 7th day of November, 2006, personally appeared before me Run-Ming David Wang 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)


Jennifer Stacy Clark  
Notary Public




Leigh Zawel L.S.

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

(202)


*Jennifer Clark*  
 \_\_\_\_\_  
 Notary Public  
  
**JENNIFER STACY CLARK**  
**NOTARY PUBLIC**  
 COMMONWEALTH OF MASSACHUSETTS  
 My Commission Expires May 19, 2012

  
Christine Hiu-Tung Chen L.S.

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

(See)

*Jennifer Stacy Clark*  
\_\_\_\_\_  
Notary Public

 JENNIFER STACY CLARK  
NOTARY PUBLIC  
COMMONWEALTH OF MASSACHUSETTS  
My Commission expires May 18, 2012

# PATENT



Executed this 10 day of October, 2006.

Miao Dai L.S.  
Miao Dai

**ACKNOWLEDGEMENT**

State of Mass )  
County of St. Fork ) s.s.:  
Middlesex

On this 10<sup>th</sup> day of October, 2006, personally appeared before me Miao Dai 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)

Karen Warder  
Notary Public

Executed this 10 day of Oct, 2006.  
Huangshu Lei L.S.  
Huangshu Lei

**ACKNOWLEDGEMENT**

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

On this 10<sup>th</sup> day of October, 2006, personally appeared before me Huangshu Lei 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)

Karen Warder  
Notary Public

Executed this 7 day of November, 2006.


Ly Pham L.S.  
Ly Pham

**ACKNOWLEDGEMENT**

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

On this 7<sup>th</sup> day of November, 2006, personally appeared before me Ly Pham 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)

Jennifer Stacy Clark  
Notary Public  
 JENNIFER STACY CLARK  
NOTARY PUBLIC  
COMMONWEALTH OF MASSACHUSETTS  
My Commission Expires May 18, 2012

Executed this 7 day of November, 2006.


Fan Yang L.S.  
Fan Yang

**ACKNOWLEDGEMENT**

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

On this 7<sup>th</sup> day of November, 2006, personally appeared before me Fan Yang 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)

Jennifer Stacy Clark  
Notary Public  
 JENNIFER STACY CLARK  
NOTARY PUBLIC  
COMMONWEALTH OF MASSACHUSETTS  
My Commission Expires May 18, 2012