

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>Emma Michelle CAMPBELL</td> <td>09/14/2006</td> </tr> <tr> <td>Sofia PARVEEN</td> <td>09/14/2006</td> </tr> <tr> <td>Joe BUECHLER</td> <td>09/11/2006</td> </tr> <tr> <td>Gunars VALKIRS</td> <td>09/11/2006</td> </tr> </tbody> </table>		Name	Execution Date	Emma Michelle CAMPBELL	09/14/2006	Sofia PARVEEN	09/14/2006	Joe BUECHLER	09/11/2006	Gunars VALKIRS	09/11/2006
Name	Execution Date										
Emma Michelle CAMPBELL	09/14/2006										
Sofia PARVEEN	09/14/2006										
Joe BUECHLER	09/11/2006										
Gunars VALKIRS	09/11/2006										
RECEIVING PARTY DATA											
<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
Name:	NOVARTIS AG										
Street Address:	Lichtstrasse 35										
City:	Basel										
State/Country:	SWITZERLAND										
Postal Code:	4056										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12091020</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12091020						
Property Type	Number										
Application Number:	12091020										
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>Phone: 6178715028</p> <p>Email: Melissa.Ponziano@novartis.com</p> <p>Correspondent Name: Patricia Hofstetter</p> <p>Address Line 1: 220 Massachusetts Avenue</p> <p>Address Line 4: Cambridge, MASSACHUSETTS 02139</p>											
ATTORNEY DOCKET NUMBER:	34582 US PCT										
NAME OF SUBMITTER:	Karen A. Lacourse										
<p>Total Attachments: 11</p> <p>source=Assignment#page 1.tif</p>											

CH \$40.00 12091020

501421489

PATENT
REEL: 025719 FRAME: 0417

source=Assignment#page2.tif
source=Assignment#page3.tif
source=Assignment#page4.tif
source=Assignment#page5.tif
source=Assignment#page6.tif
source=Assignment#page7.tif
source=Assignment#page8.tif
source=Assignment#page9.tif
source=Assignment#page10.tif
source=Assignment#page11.tif

ASSIGNMENT

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

Emma Michelle CAMPBELL	citizen of Great Britain	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB
Sofia PARVEEN	citizen of Great Britain	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB
Joe BUECHLER	citizen of United States Of America	1343 Cassins Street Carlsbad, CA 92011 US
Gunars VALKIRS	citizen of United States Of America	2893 Paseo Del Sol Escondido, CA 92025 US

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 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 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 application(s) entitled

ORGANIC MOLECULES

filed* in the RO/ _____ on _____, 20____, and accorded International Patent Application Number PCT _____, (2) said patent application(s), (3) (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the Great Britain, patent application filed on October 21, 2005 and accorded Application Number 0521509.0, and the Great Britain, patent application filed on August 22, 2006 and accorded Application Number 0616666.4, (5) all continuations and divisions of all of said patent applications (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(5) hereinafter referred to collectively as "patent applications"), (6) all patents that are granted on any of said patent applications, (7) all registrations and confirmations of, and importation certificates based on, one or more of said patents and (8) all reissues, renewals and extensions of said patents, reexamination certificates issued for said patents and supplementary protection certificates based on said patents (including the right to file patent applications on said inventions and discoveries in the names of ASSIGNEES, their designees or in any or all of our names, at their election and in accordance with applicable law in all countries and regions and all rights of priority in all countries and regions for all of said patent applications under the International Convention for the Protection of Industrial Property, and all other applicable similar international agreements), the same to be held and enjoyed by said ASSIGNEES, their successors, assigns and legal representatives, to the full ends of the terms for which all patents therefor 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 ASSIGNEES and their representatives to insert in this instrument the Application Number and the filing date of said patent application when notified thereof.

And we hereby covenant and agree that we will, at any time, upon the request and at the expense of ASSIGNEES, 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 and supplementary protection certificates in ASSIGNEES, their successors, assigns or other 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, that we will, at any time, upon the request and at the expense of ASSIGNEES, execute all additional patent applications, applications for registration and/or confirmation of one or more of said patents, applications for certificates of importation based on one or more of said patents, applications for reissues, renewals and extensions of one or more of said patents and supplemental protection certificates based upon one or more of said patents, and that we will 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, the successors, assigns or other legal representatives.

Executed this 14 day of September, 2006.

Emma Michelle Campbell L.S.
Emma Michelle CAMPBELL

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 instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this 14 day of September, 2006.Sofia Parveen L.S.
Sofia PARVEEN

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 instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20____.

L.S.
Joe BUECHLER

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 instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Case 34582

4

Executed this _____ day of _____, 20____.

Gunars VALKIRS 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 instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.


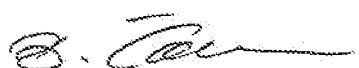
(Seal)

Notary Public

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "ORGANIC MOLECULES" signed by Emma Michelle CAMPBELL, Sofia PARVEEN, Joe BUECHLER and Gunars VALKIRS, this will certify that NOVARTIS AG accepts such Assignment.

NOVARTIS AG

By:		
Name:	Ella Rutschmann	Biljana Colovic
Function:	Administrative Professional	Head of Foreign Filing
Date:	<u>25.09.2006</u>	

Case 34582

1

ASSIGNMENT

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

Emma Michelle CAMPBELL	citizen of Great Britain	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB
Sofia PARVEEN	citizen of Great Britain	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB
Joe BUECHLER	citizen of United States Of America	1343 Cassins Street Carlsbad, CA 92011 US
Gunars VALKIRS	citizen of United States Of America	2893 Paseo Del Sol Escondido, CA 92025 US

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 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 Viena, Austria, and its successors, assigns and legal representatives, all 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 application(s) entitled

ORGANIC MOLECULES

filed* in the RO/ _____ on _____, 20____, and accorded International Patent Application Number PCT _____, (2) said patent application(s), (3) (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the Great Britain, patent application filed on October 21, 2005 and accorded Application Number 0521509.0, and the Great Britain, patent application filed on August 22, 2006 and accorded Application Number 0616666.4, (5) all continuations and divisions of all of said patent applications (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(5) hereinafter referred to collectively as "patent applications"), (6) all patents that are granted on any of said patent applications, (7) all registrations and confirmations of, and importation certificates based on, one or more of said patents and (8) all reissues, renewals and extensions of said patents, reexamination certificates issued for said patents and supplementary protection certificates based on said patents (including the right to file patent applications on said inventions and discoveries in the names of ASSIGNEES, their designees or in any or all of our names, at their election and in accordance with applicable law in all countries and regions and all rights of priority in all countries and regions for all of said patent applications under the International Convention for the Protection of Industrial Property, and all other applicable similar international agreements), the same to be held and enjoyed by said ASSIGNEES, their successors, assigns and legal representatives, to the full ends of the terms for which all patents therefor 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.

PATENT

REEL: 025719 FRAME: 0424

"We hereby authorize ASSIGNEES and their representatives to insert in this instrument the Application Number and the filing date of said patent application when notified thereof.

And we hereby covenant and agree that we will, at any time, upon the request and at the expense of ASSIGNEES, 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 and supplementary protection certificates in ASSIGNEES, their successors, assigns or other 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, that we will, at any time, upon the request and at the expense of ASSIGNEES, execute all additional patent applications, applications for registration and/or confirmation of one or more of said patents, applications for certificates of importation based on one or more of said patents, applications for reissues, renewals and extensions of one or more of said patents and supplemental protection certificates based upon one or more of said patents, and that we will 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, the successors, assigns or other legal representatives.

Executed this ____ day of _____, 20____.

L.S.
Emma Michelle CAMPBELL

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 instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20____.

Sofia PARVEEN 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 instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.

(Seal)

Notary PublicExecuted this 11 day of September, 2006._____
Joe BUECHLER L.S.

ACKNOWLEDGEMENT

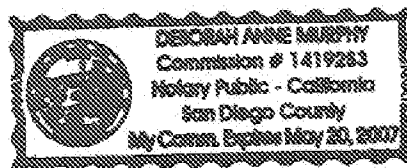
State of California

) s.s.:

County of San Diego)

On this 11th day of September, 2006, personally appeared before me Joe Buechler
to me known, and known by me to be the same person described in and
who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.

(Seal)



Deborah Anne Murphy
Notary Public
DEBORAH ANNE MURPHY

Case 34582

4

Executed this 11 day of Sept., 2006.

A. Z. V. L.S.
Gunars VALKIRS

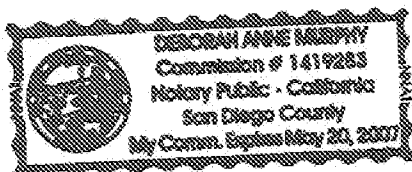
ACKNOWLEDGEMENT

State of California

County of San Diego) s.s.:
)

On this 11th day of September, 2006, personally appeared before me Gunars VALKIRS
to me known, and known by me to be the same person described in and
who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her)
own free will for the purpose set forth.

(See)



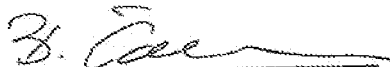
Deborah Anne Murphy
Notary Public
DEBORAH ANNE MURPHY

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "ORGANIC MOLECULES" signed by Emma Michelle CAMPBELL, Sofia PARVEEN, Joe BUECHLER and Gunars VALKIRS, this will certify that NOVARTIS AG accepts such Assignment.

NOVARTIS AG

By:



Name:

Ella Rutschmann

Biljana Colovic

Function:

Administrative Professional

Head of Foreign Filing

Date:

25.09.2006

Attestation

I, the undersigned notary public of Basel, Switzerland, certify herewith the authenticity of the signatures of Mrs. Sofia Parveen, British citizen, born on the first day of September in the year 1971, working at Novartis Horsham Research Centre in Horsham, Great Britain, and of Mrs. Emma Michelle Campbell, British citizen, born on the ninth day of June in the year 1970, working at Novartis Horsham Research Centre in Horsham, Great Britain.

I further certify that the above signatures are the genuine signatures of Mrs. Biljana Colovic, citizen of Serbia, residing in Basel, Switzerland, and Mrs. Ella Rutschmann, citizen of Lotzwil/BE, Switzerland, residing in Basel, Switzerland, both acting for Novartis AG, in Basel, Switzerland, both as proxy holders, both with joint signature.

The authenticity of the signatures was established by comparison.

BASEL, this 28th (twenty-eighth) day of September 2006 (two thousand and six)

M. Staeheli, Notar

Leg. Prot. Nr. 1256 / 2006