

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3235008

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DAVID HOOK	12/12/2007
THOMAS RUCH	12/17/2007
BERNHARD RISS	12/12/2007
BERNHARD WIETFELD	12/12/2007
GOTTFRIED SEDELMEIER	12/12/2007
MATTHIAS NAPP	12/13/2007
MARKUS BANZIGER	12/13/2007
STEVEN HAWKER	04/01/2008
LECH CISZEWSKI	03/20/2008
LILADHAR MURLIDHAR WAYKOLE	03/14/2008
RECEIVING PARTY DATA	
Name:	Novartis AG
Street Address:	Lichtstrasse 35
City:	Basel
State/Country:	SWITZERLAND
Postal Code:	4056
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	14224700
Application Number:	14627542
CORRESPONDENCE DATA	
Fax Number:	(973)781-8064
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	862-778-5806
Email:	pip_inbox.phchbs@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

PATENT

ATTORNEY DOCKET NUMBER:	PAT050481-PCTD02 PCTD03
NAME OF SUBMITTER:	DENISE COOPER
SIGNATURE:	/Denise Cooper/
DATE SIGNED:	02/20/2015

Total Attachments: 22

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ASSIGNMENT

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

David HOOK	citizen of United Kingdom	Dianastrasse 12 4310 Rheinfelden CH
Thomas RUCH	citizen of Germany	Fasanenstr. 13 4402 Frenkendorf CH
Bernhard RISS	citizen of France	Rue du Dr. Mangeney 44 68330 Huningue FR
Bernhard WIETFELD	citizen of Germany	Dichleweg 27 79588 Efringen-Kirchen DE
Gottfried SEDELMEIER	citizen of Germany	Erlenweg 11 79227 Schallstadt DE
Matthias NAPP	citizen of Germany	Pestalozzistrasse 57 DE-79540 Lörrach GERMANY
Markus BÄNZIGER	citizen of Switzerland	Dahlienstrasse 27 4416 Bubendorf CH
Steven HAWKER	citizen of United Kingdom	24 Melbourn Rd. Royston, Hertfordshire UK
Lech CISZEWSKI	citizen of Poland	7 Hamilton Road, Apt. 2H Morristown, NJ 07960 US
Liladhar Murlidhar WAYKOLE	citizen of United States Of America	11 Putters Road Succasunna, NJ 07876 USA

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 (Novartis AG hereinafter referred to as the "ASSIGNEE") in and to (1) all of our inventions and discoveries described in the patent application(s) entitled

PATENT

REEL: 034996 FRAME: 0588

NEW PROCESS


filed* in the RO/ _____ on _____, 20____, and accorded International Patent Application Number PCT _____, (2) said patent application(s), (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the **European** patent application filed on **12 January 2007** and accorded Application Number **07100451.9**, (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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE** 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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE**, the successors, assigns or other legal representatives.

Executed this 12th day of DECEMBER, 2007.



Name: David HOOK L.S.

Executed this 17 day of December, 2007.

Th. Ruch L.S.
Name: Thomas RUCH

Executed this 12 day of December, 2007.

Bernhard Riss L.S.
Name: Bernhard RISS

Executed this 12 day of December, 2007.

Bernhard Wietfeld L.S.
Name: Bernhard WIETFELD

Executed this 12 day of December, 2007.

Gottfried Seidelmeier L.S.
Name: Gottfried SEDELMEIER

Executed this 13 day of December, 2007.

Matthias Napp L.S.
Name: Matthias NAPP

Executed this 13 day of December, 2007.

Markus Banziger L.S.
Name: Markus BÄNZIGER

Executed this _____ day of _____, 20____.

Name: Steven HAWKER

Case No. 50481

4

Executed this _____ day of _____, 20____.

Name: Lech CISZEWSKI L.S.

Executed this _____ day of _____, 20____.

Name: Liladhar Murlidhar WAYKOLE L.S.

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "NEW PROCESS" signed by David HOOK; Thomas RUCH; Bernhard RISS; Bernhard WIETFELD; Gottfried SEDELMEIER; Matthias NAPP; Markus BÄNZIGER; Steven HAWKER; Lech CISZWEKSKI; Liladhar Murlidhar WAYKOLE; this will certify that NOVARTIS AG accepts such Assignment.

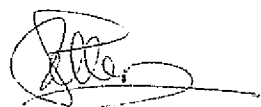
NOVARTIS AG

By :

Name :

Function :

Date :

S. ZELLERIP ATTN. EXPERT PSE. RUTSCHMANNIP ATTN. PROFESSIONAL PS17.12.2007

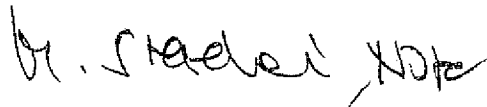
Attestation

I, the undersigned notary public of Basel, Switzerland, certify herewith the authenticity of the signatures of **Mr. David Hook**, British citizen, residing in Rheinfelden, Switzerland; of **Mr. Thomas Ruch**, German citizen, residing in Frenkendorf, Switzerland; of **Mr. Bernhard Riss**, French citizen, residing in Huningue, France; of **Mr. Bernhard Wietfeld**, German citizen, residing in Efringen-Kirchen, Germany; of **Mr. Gottfried Sedelmeier**, German citizen, residing in Schallstadt, Germany; of **Mr. Matthias Napp**, German citizen, residing in Lörrach, Germany; and of **Mr. Markus Bänziger**, citizen of Heiden/AR, Switzerland, residing in Bubendorf, Switzerland.

I further certify that the above signatures are the genuine signatures of **Ms. Sabine Zeller**, citizen of Ormalingen/BL, Switzerland, residing in Gelterkinden/BL, Switzerland; and of **Ms. Ella Rutschmann**, citizen of Lotzwil, 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, Switzerland, this 20th (twentieth) day of December 2007 (two thousand and seven).



Dr. M. Staehelin

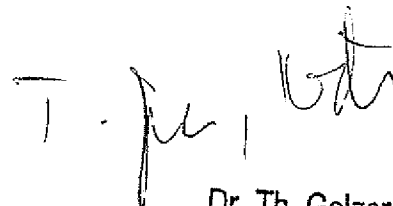
Dr. M. Staehelin
Notar

Leg.Prot.Nr. 2060/2007


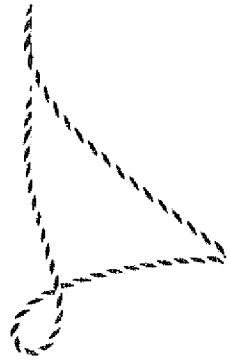
FOR CERTIFIED COPY

I, the undersigned Civil Law Notary of Basel, Switzerland, Dr. Thomas Gelzer, hereby certify that the document attached heretofore is a true and authentic photocopy of the original.

BASEL, Switzerland, this 19th (nineteenth) day of June 2009 (two thousand and nine)



Dr. Th. Gelzer
Notar



Leg.Prot.Nr. 278 /2009

ASSIGNMENT

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

David HOOK	citizen of United Kingdom	Dianastrasse 12 4310 Rheinfelden CH
Thomas RUCH	citizen of Germany	Fasanenstr. 13 4402 Frenkendorf CH
Bernhard RISS	citizen of France	Rue du Dr. Mangeney 44 68330 Huningue FR
Bernhard WIETFELD	citizen of Germany	Dichleweg 27 79588 Efringen-Kirchen DE
Gottfried SEDELMEIER	citizen of Germany	Erlenweg 11 79227 Schallstadt DE
Matthias NAPP	citizen of Germany	Pestalozzistrasse 57 DE-79540 Lörrach GERMANY
Markus BÄNZIGER	citizen of Switzerland	Dahlienstrasse 27 4416 Bubendorf CH
Steven HAWKER	citizen of United Kingdom	24 Melbourn Rd. Royston, Hertfordshire UK
Lech CISZEWSKI	citizen of Poland	7 Hamilton Road, Apt. 2H Morristown, NJ 07960 US
Liladhar Murlidhar WAYKOLE	citizen of United States Of America	11 Putters Road Succasunna, NJ 07876 USA

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 (Novartis AG hereinafter referred to as the "ASSIGNEE") in and to (1) all of our inventions and discoveries described in the patent application(s) entitled

NEW PROCESS

filed* in the RO/ _____ on _____, 20____, and accorded International Patent Application Number PCT _____, (2) said patent application(s), (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the European patent application filed on 12 January 2007 and accorded Application Number 07100451.9, (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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE** 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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE**, the successors, assigns or other legal representatives.

Executed this _____ day of _____, 20____.

Name: David HOOK L.S.

Executed this ____ day of _____, 20____.

Name: Thomas RUCH L.S.

Executed this ____ day of _____, 20____.

Name: Bernhard RISS L.S.

Executed this ____ day of _____, 20____.

Name: Bernhard WIETFELD L.S.

Executed this ____ day of _____, 20____.

Name: Gottfried SEDELMEIER L.S.

Executed this ____ day of _____, 20____.

Name: Matthias NAPP L.S.

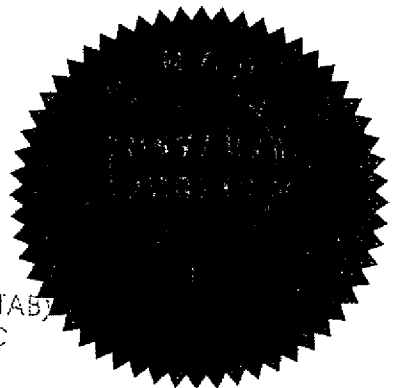
Executed this ____ day of _____, 20____.

Name: Markus BÄNZIGER L.S.

Executed this ____ day of _____, 20____.

S. Hawker
Name: Steven HAWKER L.S. 01.04.2008.

MR HAWKER
V.R.H. GARLING M.A., (CANTAB)
NOTARY PUBLIC
BROADWAY CHAMBERS
LETCWORTH, HERTS SG6 3AB



Case No. 50481

4

Executed this _____ day of _____, 20_____.

Name: Lech CISZEWSKI L.S.

Executed this _____ day of _____, 20_____.

Name: Liladhar Murlidhar WAYKOLE L.S.

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "NEW PROCESS" signed by David HOOK; Thomas RUCH; Bernhard RISS; Bernhard WIETFELD; Gottfried SEDELMEIER; Matthias NAPP; Markus BÄNZIGER; Steven HAWKER; Lech CISZWEKSKI; Liladhar Murlidhar WAYKOLE; this will certify that NOVARTIS AG accepts such Assignment.

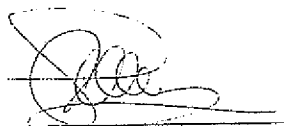
NOVARTIS AG

By :

Name :

Function :

Date :

S. ZELLERPAIN EXPERTSE. RUTSCHMANNPAIN PROFESSIONALS08 APRIL 2008

Attestation

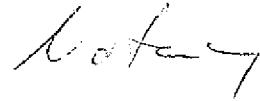
I, the undersigned, notary public of Basel, Switzerland, Dr. Roland M. Müller, certify herewith the authenticity of the signatures of **Ms. Ella Rutschmann**, citizen of Lotzwil/BE, Switzerland, residing in Basel/BS, Switzerland, and of **Ms. Sabine Zeller**, citizen of Ormalingen/BL, Switzerland, residing in Gelterkinden/BL, 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 means of comparison.

BASEL, Switzerland, this 9th (ninth) day of April 2008 (twothousandandeight)



A large, stylized handwritten signature in black ink, appearing to read 'R.M. Müller'.



A smaller, more cursive handwritten signature in black ink, appearing to read 'Roland Müller'.

Dr. R.M. Müller
Notar

Leg.Prot.Nr. 457/2008

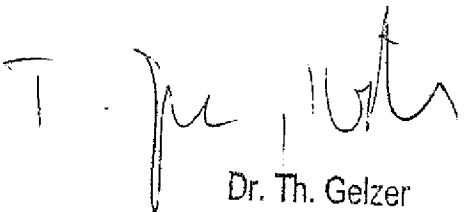
PATENT

REEL: 034996 FRAME: 0600

FOR CERTIFIED COPY

I, the undersigned Civil Law Notary of Basel, Switzerland, Dr. Thomas Gelzer, hereby certify that the document attached heretofore is a true and authentic photocopy of the original.

BASEL, Switzerland, this 19th (nineteenth) day of June 2009 (two thousand and nine)


Dr. Th. Gelzer
Notar

Leg.Prot.Nr. 260 /2009

ASSIGNMENT

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

David HOOK	citizen of United Kingdom	Dianastrasse 12 4310 Rheinfelden CH
Thomas RUCH	citizen of Germany	Fasanenstr. 13 4402 Frenkendorf CH
Bernhard RISS	citizen of France	Rue du Dr. Mangeney 44 68330 Huningue FR
Bernhard WIETFELD	citizen of Germany	Dichleweg 27 79588 Efringen-Kirchen DE
Gottfried SEDELMEIER	citizen of Germany	Erlenweg 11 79227 Schallstadt DE
Matthias NAPP	citizen of Germany	Pestalozzistrasse 57 DE-79540 Lörrach GERMANY
Markus BÄNZIGER	citizen of Switzerland	Dahlienstrasse 27 4416 Bubendorf CH
Steven HAWKER	citizen of United Kingdom	24 Melbourn Rd. Royston, Hertfordshire UK
Lech CISZEWSKI	citizen of Poland	7 Hamilton Road, Apt. 2H Morristown, NJ 07960 US
Liladhar Murlidhar WAYKOLE	citizen of United States Of America	11 Putters Road Succasunna, NJ 07876 USA

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 (Novartis AG hereinafter referred to as the "**ASSIGNEE**") in and to (1) all of our inventions and discoveries described in the patent application(s) entitled

NEW PROCESS

filed* in the RO/EP on 10 JAN., 2008, and accorded International Patent Application Number PCT/EP2008/000142, (2) said patent application(s), (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the European patent application filed on 12 January 2007 and accorded Application Number 07100451.9, (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 **ASSIGNEE**, 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 **ASSIGNEE**, 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.

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And we hereby covenant and agree that we will, at any time, upon the request and at the expense of **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE**, 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 **ASSIGNEE**, the successors, assigns or other legal representatives.

Executed this _____ day of _____, 20____.

Name: David HOOK L.S.

Executed this ____ day of _____, 20____.

_____, L.S.
Name: Thomas RUCH

Executed this ____ day of _____, 20____.

_____, L.S.
Name: Bernhard RISS

Executed this ____ day of _____, 20____.

_____, L.S.
Name: Bernhard WIETFELD

Executed this ____ day of _____, 20____.

_____, L.S.
Name: Gottfried SEDELMEIER

Executed this ____ day of _____, 20____.

_____, L.S.
Name: Matthias NAPP

Executed this ____ day of _____, 20____.

_____, L.S.
Name: Markus BÄNZIGER


Executed this ____ day of _____, 20____.

_____, L.S.
Name: Steven HAWKER

Executed this 20 day of March, 20 08.


Name: Lech CISZEWSKI L.S.

Executed this 14 day of March, 20 08.


Name: Liladhar Murlidhar WAYKOLE L.S.

STATE OF NEW JERSEY)

)ss:

COUNTY OF MORRIS)

Before me, on the 20th day of March 2008, personally appeared **Lech Ciszewski**,

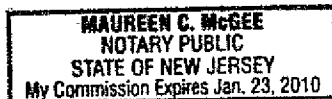
and

Before me, on the 14th day of March 2008, personally appeared **Liladhar Murlidhar Waykole**,

both known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me the 20th & 14th
day of March, 2008

Maureen C McGee
Notary



Seal

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to **NOVARTIS AG** of an invention entitled "NEW PROCESS" signed by David HOOK; Thomas RUCH; Bernhard RISS; Bernhard WIETFELD; Gottfried SEDELMEIER; Matthias NAPP; Markus BÄNZIGER; Steven HAWKER; Lech CISZWEKSKI; Liladhar Murlidhar WAYKOLE; this will certify that **NOVARTIS AG** accepts such Assignment.

NOVARTIS AG

By :

Name :

Function :

Date :

S. ZELLERR. HALBEISENIP ADM. EXPERTS PS27 MARCH 2008

Attestation

I, the undersigned, **Dr. Matthias Staehelin**, notary public in Basel, Switzerland, certify herewith that the above signatures are the genuine signatures of **Mr. Reto Halbeisen**, citizen of Wahlen/BL, Switzerland, residing in Laufen/BL, Switzerland, and **Ms. Sabine Zeller**, citizen of Ormalingen/BL, Switzerland, residing in Gelterkinden/BL, 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 means of comparison.

BASEL, Switzerland, this 4th (fourth) day of April 2008 (twothousandandeight).

M. Staehelin, Notar

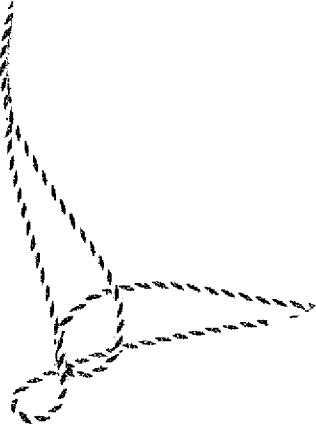
Dr. M. Staehelin
Notar

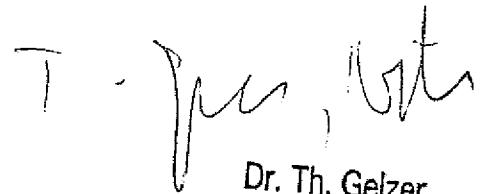
Leg.Prot.Nr. 602 /2008

FOR CERTIFIED COPY

I, the undersigned Civil Law Notary of Basel, Switzerland, Dr. Thomas Gelzer, hereby certify that the document attached heretofore is a true and authentic photocopy of the original.

BASEL, Switzerland, this 19th (nineteenth) day of June 2009 (two thousand and nine)




Dr. Th. Gelzer
Notar

Leg.Prot.Nr. 269 /2009

PATENT

RECORDED: 02/20/2015

REEL: 034996 FRAME: 0609