

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michaela Kneissel</td> <td>12/04/2008</td> </tr> <tr> <td>Christine Halleux</td> <td>12/04/2008</td> </tr> <tr> <td>Shou-lh Hu</td> <td>01/29/2009</td> </tr> </tbody> </table>		Name	Execution Date	Michaela Kneissel	12/04/2008	Christine Halleux	12/04/2008	Shou-lh Hu	01/29/2009		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>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
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PROPERTY NUMBERS Total: 2											
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Application Number:	12944019										
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CORRESPONDENCE DATA											
Fax Number:	9737818064										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	862-778-7821										
Email:	andrea.jacquin@novartis.com										
Correspondent Name:	Andrea Jacquin										
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Address Line 4:	East Hanover, NEW JERSEY 07936										
ATTORNEY DOCKET NUMBER:	52279US-CNT/52279US-CNT02										
NAME OF SUBMITTER:	Andrea Jacquin										
<p>Total Attachments: 8 source=52279 Kneissel Halleux Hu to Novartis AG_Assignment#page1.tif</p>											

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ASSIGNMENT

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

Michaela KNEISSEL	citizen of Austria	Breisacherstrasse 35 4057 Basel CH
Christine HALLEUX	citizen of Belgium	Saffretweg 3d 4143 Domach Switzerland
Shou-ih HU	citizen of United States Of America	171 The FallsWay New Providence, NJ 07974 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 (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

COMPOSITIONS AND METHODS OF USE FOR ANTIBODIES AGAINST SCLEROSTIN

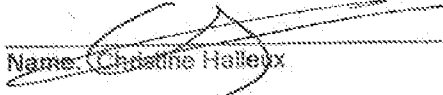
filed* in the RO/ _____ on _____, 20____, and accorded International Patent Application Number PCT _____, (2) said patent application(s), (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the European Procedure@@European Procedure@@European Procedure, patent application filed on October 12, 2007@@February 25, 2008@@July 29, 2008 and accorded Application Number 07118414.7@@08151911.8@@08161342.4, (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 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 04 day of December, 2008.

Name: Michaela Kreiser L.S.

Executed this 4 day of December, 2008.

Name: Christine Halleix L.S.

Executed this _____ day of _____, 2008.

Name: Shou-ih Hu L.S.

ASSIGNMENT

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Shou-Ih HU	citizen of United States Of America	171 The Fellsway New Providence, NJ 07974 US

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Executed this _____ day of _____, 2008.

Name: Michaela Kneissel L.S.

Executed this _____ day of _____, 2008.

Name: Christine Halleux L.S.

Executed this 29 day of JAN, 2008.

[Signature]
Name: Shou-Ih Hu L.S.

ACKNOWLEDGEMENT

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

On this 29th day of February, 2009, before me, the undersigned notary public, personally appeared Shou-Ih Hu, proved to me satisfactory evidence of identification, which were - Driver's License, to be the person whose is name signed on the preceding or attached document in my presence.



Allison Blake
Signature

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "COMPOSITIONS AND METHODS FOR USE FOR ANTIBODIES AGAINST SCLEROSTIN" signed by Michaela Kneissel, Christine Halleux, and Shou-lh Hu; this will certify that NOVARTIS AG accepts such Assignment.

NOVARTIS AG

By :

Elena Soria Brugnara

E. Rutschmann

Name :

Elena Soria Brugnara

Ella Rutschmann

Function :

Authorized Signatories

Date:

23 January 2009

Attestation

I, the undersigned, notary public of Basel, Switzerland, Dr. Matthias Staehelin, certify herewith that the above signatures are the genuine signatures of **Ms. Michaela Kneissel**, Austrian citizen, in Basel, Switzerland; of **Ms. Christine Halleux**, Belgian citizen, in Dornach, Switzerland; and of **Mr. Shou-Ih Hu**, US-citizen, in New Providence, New Jersey, United States of America.

Further I certify herewith that the above signatures are the genuine signatures of **Ms. Ella Rutschmann**, citizen of Lotzwil/BE, Switzerland, residing in Basel/BS, Switzerland; and of **Ms. Elena Sona Brugnera**, Indian citizen, residing in Regensdorf, 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.

BASIL, Switzerland, this 9th (ninth) day of February 2009 (two thousand and nine)

M. Staehelin, Notar

Dr. M. Staehelin
Notar

Leg. Prot. Nr. 519/2009

FOR CERTIFIED COPY

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

BASEL, Switzerland, this 9th (ninth) day of February 2009 (two thousand and nine)

M. Staehelin, Notar

Dr. M. Staehelin
Notar

Leg. Prof. Nr. *523* /2009