

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Carol Elizabeth JONES</td> <td>06/25/2008</td> </tr> <tr> <td>Alan David JACKSON</td> <td>04/29/2009</td> </tr> </tbody> </table>		Name	Execution Date	Carol Elizabeth JONES	06/25/2008	Alan David JACKSON	04/29/2009		
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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> </table>		Name:	NOVARTIS AG	Street Address:	Lichtstrasse 35	City:	Basel	State/Country:	SWITZERLAND
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PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13568300</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13568300				
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CORRESPONDENCE DATA									
<p>Fax Number: 6178713392 Phone: 6178715028 Email: Melissa.Ponziano@novartis.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: Melissa Ponziano Address Line 1: 220 Massachusetts Avenue Address Line 4: Cambridge, MASSACHUSETTS 02139</p>									
ATTORNEY DOCKET NUMBER:	PAT052225-US-PCTD								
NAME OF SUBMITTER:	Melissa Ponziano								
<p>Total Attachments: 8 source=US_F_Assignment#page1.tif source=US_F_Assignment#page2.tif source=US_F_Assignment#page3.tif source=US_F_Assignment#page4.tif source=US_F_Assignment#page5.tif source=US_F_Assignment#page6.tif source=US_F_Assignment#page7.tif source=US_F_Assignment#page8.tif</p>									

CH \$40.00 13568300

Case No. 52225

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ASSIGNMENT

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

Carol Elizabeth JONES	citizen of United Kingdom	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB
Alan David JACKSON	citizen of United Kingdom	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB

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

Protein Modulators

filed* in the RO/EP on 22 AUGUST 2008, and accorded International Patent Application Number PCT/EP2008/061009, (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, patent application filed on August 24, 2007 and accorded Application Number 07114972.8 (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 25 day of JUNE, 2008.

 L.S.
Name: Carol Elizabeth JONES

Executed this _____ day of _____, 20_____.

Name: Alan David JACKSON L.S.

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "Protein Modulators" signed by Carol Elizabeth JONES and Alan David JACKSON; this will certify that NOVARTIS AG accepts such Assignment.


NOVARTIS AG

By :

Name :

Function :

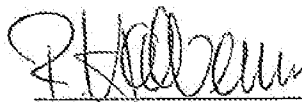
Date :



SABINE ZELLER

AUTH. SIGNATORY

15 May 2009



RETO HALREISEN

AUTH. SIGNATORY

ASSIGNMENT

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

Carol Elizabeth JONES	citizen of United Kingdom	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB
Alan David JACKSON	citizen of United Kingdom	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB GB

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*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: Carol Elizabeth JONES L.S.

Executed this 29 day of April, 2009.



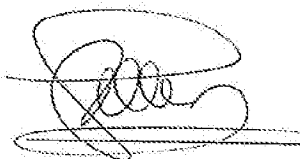
Name: Alan David JACKSON L.S.

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NOVARTIS AG

By :



Name :

SABINE ZELLERRETO HALBERDEN

Function :

AUTH. SIGNATORYAUTH. SIGNATORY

Date:

05 MAY 2008

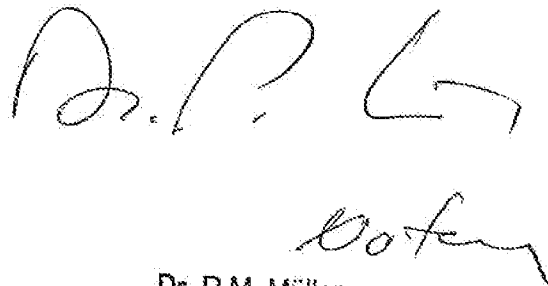
Attestation

I, the undersigned Civil Law Notary of Basel, Switzerland, Dr. Roland M. Müller, certify herewith the authenticity of the signatures attached heretofore of **Ms. Carol Elizabeth Jones**, born on 4th (fourth) June 1966 (nineteen hundred sixty-six), British citizen, with business address in Horsham, West Sussex RH12 5AB, Great Britain, and of **Mr. Alan David Jackson**, born on 27th (twenty-seventh) May 1965 (nineteen hundred sixty-five), British citizen, with business address in Horsham, West Sussex RH12 5AB, Great Britain.

I further certify that the signatures attached heretofore are the genuine signatures of **Ms. Sabine Zeller**, citizen of Ormalingen/BL, Switzerland, residing in Gelterkinden/BL, Switzerland, and **Mr. Reto Halbeisen**, citizen of Wahlen/BL, Switzerland, residing in Laufen/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 7th (seventh) day of May 2009 (two thousand and nine)



Dr. R.M. Müller
Notar

Leg.Prot.Nr. 419 /2009

FOR CERTIFIED COPY

I, the undersigned Civil Law Notary in Basel, Switzerland, Dr. Matthias Staehelin, hereby certify that the documents attached heretofore are true and authentic photocopies of the originals.

BASEL, Switzerland, this 23rd (twenty-third) day of December 2009 (two thousand and nine)

M. Staehelin, Notar

Dr. M. Staehelin
Notar

Leg.Prot.Nr. 3363 / 2009