501937627 05/30/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: NEW ASSIGNMENT | |
|---------------------------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Michelle Bradley | 11/21/2011 |
| Zarin Brown | 11/22/2011 |
| Steven John Charlton | 11/21/2011 |
| Gino Van Heeke | 11/21/2011 |

RECEIVING PARTY DATA

| Name: | Novartis Pharmaceuticals UK Limited | |
|-----------------|-------------------------------------|--|
| Street Address: | Wimblehurst Road | |
| City: | Horsham, West Sussex | |
| State/Country: | UNITED KINGDOM | |
| Postal Code: | RH12 5AB | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13290175 |

CORRESPONDENCE DATA

Fax Number: (617)871-3392 6178713040 Phone:

Email: pip_inbox.phchbs@novartis.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Karen Lacourse Address Line 1: **Novartis NIBR**

Address Line 2: 220 Massachusetts Avenue

Address Line 4: Cambridge, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER: PAT054087-US-NP NAME OF SUBMITTER: Susan M. Dillon

PATENT

REEL: 028287 FRAME: 0668

Total Attachments: 6

source=Inventors_to_NovartisPharma#page1.tif source=Inventors_to_NovartisPharma#page2.tif source=Inventors_to_NovartisPharma#page3.tif source=Inventors_to_NovartisPharma#page4.tif source=Inventors_to_NovartisPharma#page5.tif source=Inventors_to_NovartisPharma#page6.tif

> PATENT REEL: 028287 FRAME: 0669



(joint)

ASSIGNMENT

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

| Michelle BRADLEY | citizen of United Kingdom | Novartis Pharmaceuticals UK Limited |
|----------------------|---------------------------|-------------------------------------|
| | | Wimblehurst Road |
| | • | Horsham, West Sussex RH12 5AB |
| | | GB |
| Zarin BROWN | citizen of United Kingdom | Novartis Pharmaceuticals UK Limited |
| | | Wimblehurst Road |
| | | Horsham, West Sussex RH12 5AB |
| • | | GB |
| Steven John CHARLTON | citizen of United Kingdom | Novartis Pharmaceuticals UK Limited |
| | ; | Wimblehurst Road |
| | | Horsham, West Sussex RH12 5AB |
| | | GB |
| Gino VAN HEEKE | citizen of Belgium | Novartis Pharmaceuticals UK Limited |
| | | Wimblehurst Road |
| | | Horsham, West Sussex RH12 5AB |
| | | GB |
| | | |

do hereby sell, assign and transfer to Novartis Pharmaceuticals UK Limited, a company organized under the laws of the Great Britain, of Wimblehurst Road, Horsham, West Sussex RH12 5AB, Great Britain, (hereinafter referred to as the "ASSIGNEE") and its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled

Chemokine receptor binding polypeptides

| and filed in the United : | States Patent and Trademark Office on | , 20 and accorded Application |
|-----------------------------|---|---|
| Number | * and/or filed in the RO/ on | , 20 and accorded |
| International Patent Ap | plication Number PCT/ | *, (2) the patent application(s) identified |
| in (1), (3) all national st | ages of any international patent application id | dentified in (1), (4) all other patent |
| | tries and regions claiming the priority of the pr | |
| application filed in the l | United States Patent and Trademark Office or | n <u>08 November 2010</u> and accorded |
| Application Number 61 | /411,083, (5) for all patent applications, all n | ghts of priority based upon the United |
| States patent application | on identified in (4) in all countries and regions | under the Paris Convention for the |
| Protection of Industrial | Property, the Inter-American Convention rela | ting to Inventions, Patents, Designs, and |
| | III other international agreements to which the | |
| | nd, if the United States patent application idea | |
| | SC 119(e) (including the right to file patent ap | • |
| | es of ASSIGNEE or their designees or in our | · · |
| | able law in all countries and regions), (6) all c | |
| | on or international patent application designat | |
| - | any intemational application identified in (1) a | * |
| | further continuations and divisions such as, b | |
| | nuations of divisions), ((2)-(4) and (6) hereina | |
| | tents that are granted on any of said patent a | |
| confirmations of, and in | nportation certificates based upon, one or mo | re of said patents and applications for |

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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 **ASSIGNEE** 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.

*We hereby authorize **ASSIGNEE** and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEE** 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 **ASSIGNEE** 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 **ASSIGNEE** or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) 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 requisite for procuring the same or for aiding therein, without further compensation, but at the expense of **ASSIGNEE** or their successors, assigns or legal representatives.

This Assignment is effective as from the earliest priority date as stated above.

| Executed this 21 day of | <u>~○∨ , 20 11</u> |
|--|--|
| Michelle BRADLEY | L.S. |
| ACKNOWLEDGEMENT | |
| State of) | |
| County of) | s.s.: |
| 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 A own free will for the purpose set fort | Assignment and acknowledged that (s)he executed the same of his (her) |
| (Seal) | |
| | |

PATENT

REEL: 028287 FRAME: 0671

Notary Public

| Executed this 22 day of Wov. , 2011 |
|--|
| |
| L.s. |
| Zarin BROWN |
| 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 Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth. |
| (Seal) |
| Notary Public |
| Executed this day of, 20 <u>/ /</u> . |
| L.S. |
| Steven John CHARLTON |
| 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 Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth. |
| (Seal) |

| | | Notary Public |
|---|-------------------|--|
| | | • |
| | | |
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| _ | | |
| Executed this day o | of NOV , 2 | 0.11 |
| 4- | | |
| Cin | | |
| Gino VAN HEAKE | L.S. | |
| ACKNOWLEDGEMENT | : | · |
| 7 | | |
| State of |) | |
| |) s.s.: | |
| County of |) | |
| | | • • |
| On this day of | | ersonally appeared before me |
| | | own and known by me to be the same person described |
| n and who executed the foregons will for the purpose se | | acknowledged that (s)he executed the same of his (her) |
| (Seal) | | |
| | | N. A Dubl |
| | | Notary Public |

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ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS Pharmaceuticals UK Limited of an invention entitled "Chemokine receptor binding polypeptides" signed by Michelle BRADLEY, Zarin BROWN, Steven John CHARLTON and Gino VAN HEEKE; this will certify that NOVARTIS Pharmaceuticals UK Limited accepts such Assignment.

NOVARTIS Pharmaceuticals UK Limited

Ella Rutschmann

Authorized signatory

By:

Name:

Sabine Zeller

Authorized signatory

Function:

Date:

05 JECEMREL 2014

PATENT

REEL: 028287 FRAME: 0674

ATTESTATION

I, the undersigned Civil Law Notary in Basel, Switzerland, Dr. Matthias Staehelin, certify herewith that the signatures attached heretofore are the genuine signatures of Ms. Michelle Bradley, born on April 14 (fourteenth) 1977 (nineteen hundred seventy seven), citizen of the United Kingdom, with business address in Horsham, West Sussex, United Kingdom; of Ms. Zarin Brown, born on February 24 (twenty-fourth) 1952 (nineteen hundred fifty two), citizen of the United Kingdom, with business address in Horsham, West Sussex, United Kingdom; of Mr. Seven John Charlton, born on May 11 (eleventh) 1972 (nineteen hundred seventy two), citizen of the United Kingdom, with business address in Horsham, West Sussex, United Kingdom; and of Mr. Gino Van Heek, born on March 6 (sixth) 1960 (ineteen hundred sixty), citizen of Belgium, with business address in Horsham, West Sussex, United Kingdom.

Further I certify herewith that the signatures attached heretofore are the genuine signatures of **Ms Sabine Zeller**, citizen of Ormalingen, Switzerland, residing in Gelterkinden, Switzerland, and of **Ms. Ella Rutschmann**, citizen of Lotzwil, Switzerland, residing in Basel, Switzerland, both acting for **Novartis Pharmaceuticals UK Limited**, in, Frimley, Camberley, Surrey, United Kingdom, both as proxy holders and both with single signatures.

The authenticity of the signatures was established by means of comparison.

BASEL, Switzen and, this 12th (twelfth) day of December 2011 (two thousand and eleven)

M. Stacher Noter

Dr. M. Staehelin

Leg.Prot.Nr. 2570/2011

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RECORDED: 05/30/2012