

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Martin Dimitroff	02/20/2008
Bridget R. Miller	02/27/2008
Brady S. Stillwell	04/22/2008
David A. Siesel	02/13/2008
Tyson Swiftney	04/01/2008
Brian Diaz	02/26/2008
Danlin Gu	03/25/2008
Jonathan P. Van Dyck	02/13/2008
David Ryckman	03/12/2008
Daniel J. Poon	02/25/2008
Teresa E. Pick	03/21/2008

RECEIVING PARTY DATA

Name:	Novartis AG
Street Address:	Lichtstrasse, 35
City:	4056 Basel
State/Country:	SWITZERLAND

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	7767820

CORRESPONDENCE DATA

Fax Number: (650)949-2065
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
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 Email: sylvia@swisstanner.com
 Correspondent Name: Lorna L. Tanner
 Address Line 1: Swiss Tanner, P.C.

OP \$40.00 7767820

Address Line 2: Four Main Street, Suite 100
Address Line 4: Los Altos, CALIFORNIA 94022

ATTORNEY DOCKET NUMBER: 356000-3004

NAME OF SUBMITTER: Lorna L. Tanner

Total Attachments: 92

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(joint)

Patent Case 51673

ASSIGNMENT

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

1. Martin DIMITROFF, Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 USA, citizen of Canada
2. Bridget R. MILLER, Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 USA, citizen of USA
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11. Teresa E. PICK, Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 USA, citizen of 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 of our right, title and interest for all countries of the world (Novartis AG hereinafter referred to collectively as the "ASSIGNEES") in and to (1) all of our inventions and discoveries described in the patent application(s) titled

SUBSTITUTED BENZIMIDAZOLES AND METHODS OF PREPARATION

and filed in the United States Patent and Trademark Office on _____ and accorded Application Number _____ * International Application No. PCT/US2006/034112, filed 30 August 2006 (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed in the United States Patent and Trademark Office on 30 August 2005 and accorded Application Number 60/713,108, on 30 August 2005 and accorded Application Number 60/712,539 on 27 October 2005 and accorded Application Number 60/731,591 and on 17 February 2006 and accorded Application Number 60/774,684 (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of

(joint)

ASSIGNEES or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** or their successors, assigns or legal representatives.

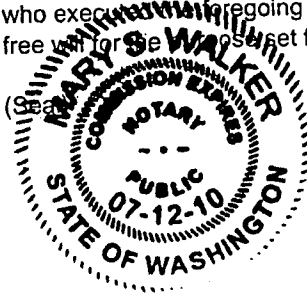
(joint)
Executed this 20th day of February, 2008.

[Signature] L.S.
Martin DIMITROFF

ACKNOWLEDGEMENT

State of WA)
) s.s.:
County of KING)

On this 20th day of February, 2008, personally appeared before me Martin Dimitroff 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.



[Signature]
Notary Public

Executed this _____ day of _____, 20_____.

Bridget R. MILLER 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 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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PATENT

REEL: 024946 FRAME: 0409

(joint)

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PATENT

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(Joint)

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(Joint)
Executed this 22 day of Apr, 20 08.

Brady S. Stillwell L.S.
Brady S. STILLWELL

ACKNOWLEDGEMENT

State of Connecticut)
County of New London) s.s.: Horton

On this 22nd day of April, 20 08, personally appeared before me Brady S. Stillwell 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)

Diane L. Moshier
Notary Public

Diane L. Moshier

My comm. expires
8/31/2010

Executed this _____ day of _____, 20_____.

David A. SIESEL 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 Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

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(joint)

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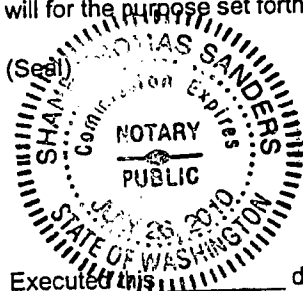
(joint)
Executed this 01 day of April, 2008.

Tyson Swiftney
Tyson SWIFTNEY

ACKNOWLEDGEMENT

State of Washington)
) s.s.:
County of King)

On this 1st day of April, 2008, personally appeared before me Tyson Swiftney 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.



[Signature]
Notary Public

Executed this _____ day of _____, 20____.

L.S.
Brian DIAZ

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

(joint)

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(joint)

Patent Case 51673

ASSIGNMENT

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PATENT

REEL: 024946 FRAME: 0450

(joint)

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(joint)
Executed this 25th day of March, 2008.

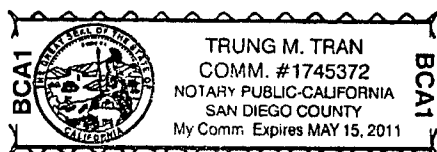
[Signature] L.S.
Danlin Gu

ACKNOWLEDGEMENT

State of California)
) s.s.:
County of San Diego)

On this 25th day of March, 2008, personally appeared before me
Danlin Gu 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)



[Signature]
Notary Public

Executed this _____ day of _____, 20_____.

L.S.
Jonathan P. VAN DYCK

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20_____, personally appeared before me
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(joint)

Patent Case 51673

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11. Teresa E. PICK, Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 USA, citizen of 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 of our right, title and interest for all countries of the world (Novartis AG hereinafter referred to collectively as the "ASSIGNEES") in and to (1) all of our inventions and discoveries described in the patent application(s) titled

SUBSTITUTED BENZIMIDAZOLES AND METHODS OF PREPARATION

and filed in the United States Patent and Trademark Office on _____ and accorded Application Number _____ * International Application No. PCT/US2006/034112, filed 30 August 2006 (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed in the United States Patent and Trademark Office on 30 August 2005 and accorded Application Number 60/713,108, on 30 August 2005 and accorded Application Number 60/712,539 on 27 October 2005 and accorded Application Number 60/731,591 and on 17 February 2006 and accorded Application Number 60/774,684 (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of

PATENT

REEL: 024946 FRAME: 0466

(joint)

ASSIGNEES or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** 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 **ASSIGNEES** or their successors, assigns or legal representatives.

ACKNOWLEDGMENT

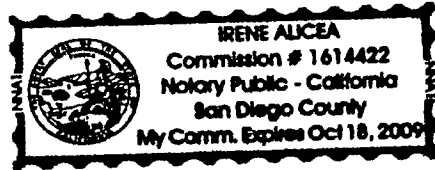
State of California
County of SAN DIEGO

On MARCH 12, 2008 before me, IRENE ALICEA, NOTARY PUBLIC
(insert name and title of the officer)

personally appeared DAVID RUCKMAN
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.



Signature Irene Alicea (Seal)

(joint)

Patent Case 51673

ASSIGNMENT

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

1. Martin DIMITROFF, Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 USA, citizen of Canada
2. Bridget R. MILLER, Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 USA, citizen of USA
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PATENT

REEL: 024946 FRAME: 0475

(joint)

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of California

On 02/25/08 before me, Elissa M. Nash, Notary Public
Date Here Insert Name and Title of the Officer

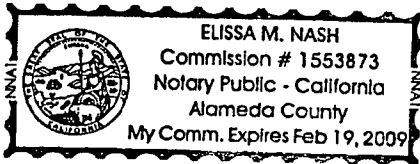
personally appeared Daniel Poon
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Elissa M. Nash
Signature of Notary Public



Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

Signer's Name: _____

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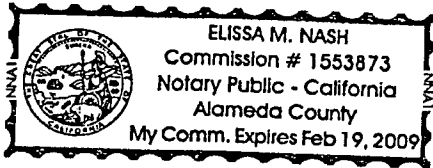
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Alameda

On March 21, 2008 before me, Elissa M. Nash, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Teresa Pick
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Elissa M. Nash
Signature of Notary Public

Place Notary Seal Above

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Description of Attached Document

Title or Type of Document: _____

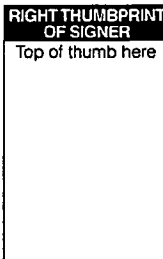
Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

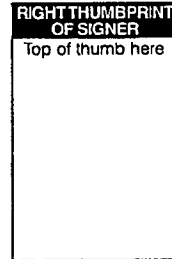
- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

Signer's Name: _____

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Signer Is Representing: _____