

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Nguyen Tan	02/21/2009
Eleni Venetsanakos	01/29/2007
Michel Faure	01/23/2009
Carla Heise	03/07/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Novartis AG
<b>Street Address:</b>	Lichtstrasse 35
<b>City:</b>	Basel
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	4056
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12375074
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(973)781-8064
<b>Phone:</b>	862-778-7824
<b>Email:</b>	pip_inbox.phchbs@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>	
<b>Correspondent Name:</b>	George R. Dohmann
<b>Address Line 1:</b>	Novartis Pharmaceuticals Corporation
<b>Address Line 2:</b>	One Health Plaza, Bldg 101
<b>Address Line 4:</b>	East Hanover, NEW JERSEY 07936
<b>ATTORNEY DOCKET NUMBER:</b>	PAT052073
<b>NAME OF SUBMITTER:</b>	Denise Cooper

CH \$40.00 12375074

**501660299**

**PATENT  
 REEL: 026917 FRAME: 0343**

**Total Attachments: 14**

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**ASSIGNMENT**

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

Nguyen Tan	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097
Eleni Venetsanakos	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097
Michel Faure	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097
Carla Heise	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097

do hereby sell, assign and transfer to **Novartis AG**, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, Basel, Switzerland 4056, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (hereinafter referred to as the "**ASSIGNEE**") in and to (1) all of our inventions and discoveries described in the patent provisional or non-provisional patent application(s) titled

**USE OF MELANOMA INHIBITORY ACTIVITY (MIA) PROTEIN AS AN EARLY INDICATOR FOR THERAPEUTIC RESPONSE IN MELANOMA**

and filed in the United States Patent and Trademark Office on \_\_\_\_\_, 20\_\_\_\_ and accorded Application Number \_\_\_\_\_ \* and/or filed in the RO/ US on July 26, 2007 and accorded International Patent Application Number PCT/US2007/016848\*, (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 July 28, 2006 and accorded Application Number 60/820,756, (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 **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,

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
L.S.  
**Eleni Venetsanakos**

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
                                      ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me Eleni Venetsanakos 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\_\_\_\_\_.

\_\_\_\_\_  
L.S.  
**Michel Faure**

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
                                      ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me Michel Faure 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)

\_\_\_\_\_

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Carla Heise

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
  ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Carla Heise 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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Michel Faure	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097
Carla Heise	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097

do hereby sell, assign and transfer to **Novartis AG**, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, Basel, Switzerland 4056, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (hereinafter referred to as the "**ASSIGNEE**") in and to (1) all of our inventions and discoveries described in the patent provisional or non-provisional patent application(s) titled

USE OF MELANOMA INHIBITORY ACTIVITY (MIA) PROTEIN AS AN EARLY INDICATOR  
FOR THERAPEUTIC RESPONSE IN MELANOMA

and filed in the United States Patent and Trademark Office on \_\_\_\_\_, 20\_\_\_\_ and accorded Application Number \_\_\_\_\_\* and/or filed in the RO/ US on July 26, 2007 and accorded International Patent Application Number PCT/US2007/016848\*, (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 July 28, 2006 and accorded Application Number 60/820,756, (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 **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.

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.

\*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.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
L.S.  
**Nguyen Tan**

**ACKNOWLEDGEMENT**

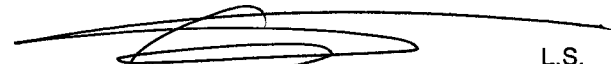
State of \_\_\_\_\_ )  
  ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Nguyen Tan** 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 29 day of JAN, 2007.

  
\_\_\_\_\_  
L.S.  
**Eleni Venetsanakos**

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
  ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Eleni Venetsanakos 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 23 day of January 2009.

  
\_\_\_\_\_  
L.S.  
**Michel Faure**

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
  ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Michel Faure 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)

\_\_\_\_\_





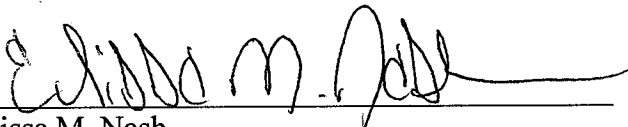
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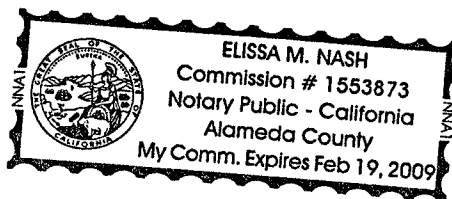
County of Alameda

On January 29, 2009 before me, Elissa M. Nash, personally appeared Eleni Venetsanakos, who provided to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or entity upon behalf of which the person 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.

  
Elissa M. Nash



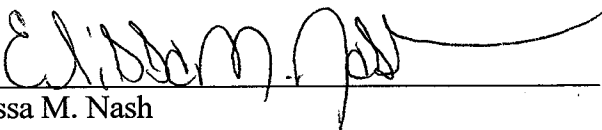
State of California

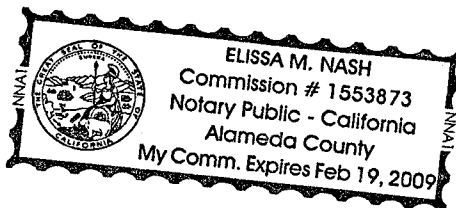
County of Alameda

On January 23, 2009 before me, Elissa M. Nash, personally appeared Michel Faure, who provided to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or entity upon behalf of which the person acted, executed the instrument.

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WITNESS my hand and official seal.

  
Elissa M. Nash



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

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Carla Heise	residing at	c/o Novartis Vaccines & Diagnostics, Inc. P.O. Box 8097 Emeryville, CA 94662-8097

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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.

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.

\*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.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_ L.S.  
Nguyen Tan

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
  ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally appeared before me **Nguyen Tan** 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\_\_\_\_.

\_\_\_\_\_  
L.S.  
**Eleni Venetsanakos**

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
 ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Eleni Venetsanakos 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\_\_\_\_.

\_\_\_\_\_  
L.S.  
**Michel Faure**

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
 ) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Michel Faure 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 7<sup>th</sup> day of March, 2009

Carla Heise  
Carla Heise L.S.

SEE ATTACHED  
CA. ACKNOWLEDGEMENT

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
) s.s.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Carla Heise 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

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Solano

On 3/7/09  
Date

before me,

**Triny Lopez, Notary Public**

Here Insert Name and Title of the Officer

personally appeared

Carla Heise

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.



Place Notary Seal Above

Signature

[Signature]  
Signature of Notary Public

**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:

ASSIGNMENT

Document Date:

Number of Pages:

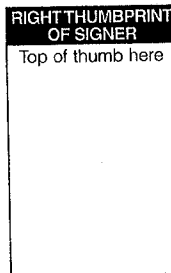
Signer(s) Other Than Named Above:

**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:

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

Signer Is Representing: \_\_\_\_\_

