

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| | |
|--|---------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GIORGIO CAPANNOLI | 01/04/2008 |
| VALERIA CARINCI | 01/07/2008 |
| SANDRO D'ASCENZI | 12/18/2007 |
| CLAUDIA MAGAGNOLI | 12/18/2007 |
| RECEIVING PARTY DATA | |
| Name: | NOVARTIS VACCINES AND DIAGNOSTICS SRL |
| Street Address: | Via Fiorentina 1 |
| City: | Siena |
| State/Country: | ITALY |
| Postal Code: | I-53100 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11630545 |
| CORRESPONDENCE DATA | |
| Fax Number: | (510)923-3542 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | (510) 923-2192 |
| Email: | Arrendle.Brown@Novartis.com |
| Correspondent Name: | Helen Lee |
| Address Line 1: | 4560 Horton Street |
| Address Line 4: | Emeryville, CALIFORNIA 94608-2916 |
| ATTORNEY DOCKET NUMBER: | PP022929.0004 |
| NAME OF SUBMITTER: | Arrendle Brown |

Total Attachments: 4
 source=22929.0004 Cov#page1.tif

500448627

**PATENT
 REEL: 020418 FRAME: 0131**

CH \$40.00 11630545

source=22929.0004 Assig#page1.tif
source=22929.0004 Assig#page2.tif
source=22929.0004 Assig#page3.tif

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Atty Docket No.: PP022929.0004

To the Director of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

GIORGIO CAPANNOLI
VALERIA CARINCI
SANDRO D'ASCENZI
CLAUDIA MAGAGNOLI

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name:

NOVARTIS VACCINES AND DIAGNOSTICS SRL
Via Fiorentina 1, I-53100
Siena, Italy

3. Nature of conveyance:

 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement Other _____
 Government Interest Assignment
 Executive Order 9424, Confirmatory License

Execution Date(s): 1/4/2008, 1/7/2008, 12/18/2007, 12/18/2007

Other

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: _____.
A. Patent Application No.(s)

PCT/IB2005/002532 (now US 11/630,545)

B. Patent No.(s)

Additional number(s) attached Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

NOVARTIS VACCINES AND DIAGNOSTICS, INC.
Intellectual Property – R338
P.O. Box 8097
Emeryville, CA 94662-8097
USA

6. Total number of applications and patents involved

7. Total fee (37 CFR 3.41)..... \$40.00
 Enclosed
 Authorized to be charged to deposit account,

8. Deposit account number: **03-1664**

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Helen Lee, Reg. No. 39,270 _____
Name of Person Signing Signature Date
[Signature] *[Date]*

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:
M/S Assignment Recordation Services, Director of the USPTO, P.O. Box 1450,
Alexandria, VA 22313-1450

I hereby certify that this paper is being transmitted electronically to the Assignment Recordation Services Office of the United States Patent and Trademark Office on the below identified date.

[Signature]
Arrendle Brown

1/25/08
Date

ASSIGNMENT

WHEREAS, WE, GIORGIO CAPANNOLI, VALERIA CARINCI, SANDRO D'ASCENZI and CLAUDIA MAGAGNOLI, hereinafter referred to as **ASSIGNORS**, have invented certain new and useful improvements as described and set forth in the below-identified International Patent Application and application for United States Letters Patent:

Title of Invention: DIMENSIONAL ANALYSIS OF SACCHARIDE CONJUGATES WITH GPC & SEC-MALS

Date(s) of Execution: 01/04/08, 01/07/08, 12/18/07, 12/18/07

Application Nos: PCT/IB2005/002532 Filing Date: June 21, 2005
US 11/630,545 Filing Date: June 21, 2005

WHEREAS, NOVARTIS VACCINES AND DIAGNOSTICS SRL, with a place of business at Via Fiorentina 1, I-53100, Siena, Italy, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application(s) and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisionals, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNORS further agree that they will, without charge to said **ASSIGNEE**, but at **ASSIGNEE'S** expense, cooperate with **ASSIGNEE** in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as **ASSIGNEE** lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said **ASSIGNEE**, or **ASSIGNEE'S** successors and assigns.

IN TESTIMONY WHEREOF, **ASSIGNORS** have hereunto signed their name to this assignment on the date indicated below.

Date 04 GEN 08 _____
Giorgio Capannoli
GIORGIO CAPANNOLI

Martha Bellio

Witness
Franco

Witness

Date 07 Jan. '08 _____
Valeria Carinci
VALERIA CARINCI

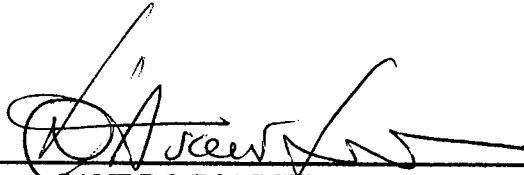
Martha Bellio

Witness
Franco

Witness

Date

18 Dec 07



SANDRO D'ASCENZI

Harita Palles

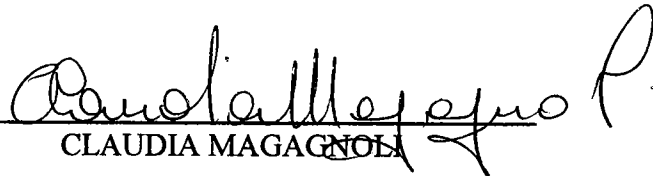
Witness

Franco

Witness

Date

18 Dec 07



CLAUDIA MAGAGNOLI

Harita Palles

Witness

Franco

Witness