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Atty Docket No.: PP17949.0003

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

1. Name of conveying party(ies):

Vega MASIGNAMI, Marigrazia PIZZA, Rino RAPPUOLI

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

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

Chiron S.R.L.
Via Fiorentina, 1
I-53100 Siena
Italy

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

3. Nature of conveyance:

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

Other

Execution Date(s): October 6, 2003

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)

US 10/472,681

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

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41)..... \$40.00

- Enclosed
- Authorized to be charged to deposit account.

8. Deposit account number: 03-1664

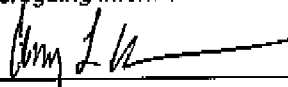
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9. Statement and signature.

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.

Amy L. Hessler, Reg. No. 50,310
Name of Person Signing


Signature

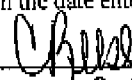
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8/31/07
Date


Cynthia Reese

PATENT

Atty. Docket No. 17949.003

ASSIGNMENT

WHEREAS, We, Vega Massignani, Mariagrazia Pizza, and Rino Rappuoli, hereinafter referred to as *ASSIGNORS*, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: ADP-RIBOSYLATING BACTERIAL TOXINS

Date of Execution: October 6, 2003

UK Application No. 0108024.1

Filing Date: March 30, 2001

International Application No. PCT/IB02/02080

Filing Date: March 28, 2002

U.S. Serial No: 10/472,681

Filing Date: September 19, 2003

WHEREAS, *CHIRON S.r.l.*, 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 for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, 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.

PATENT

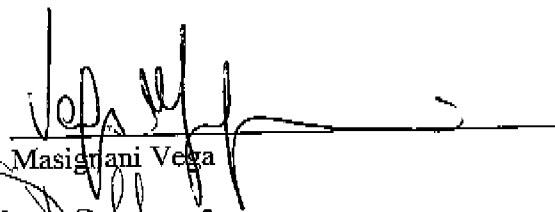
Atty. Docket No. 17949.003

ASSIGNORS also agree that the U.S. application number may be entered above by *ASSIGNEE* or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

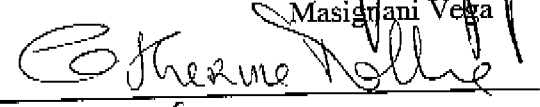
ASSIGNORS further agree that they will, without charge to said *ASSIGNEE*, but at *ASSIGNEE'S* expense, cooperate with *ASSIGNEE* in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and 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 names to this assignment on the dates indicated below.

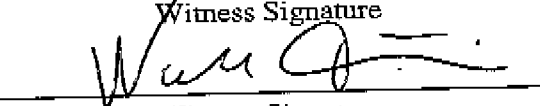
DATE 6/10/2003 _____



 Masigrani Vega

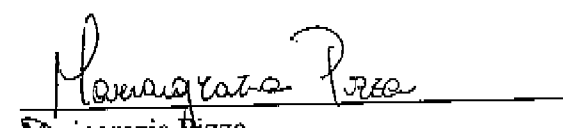


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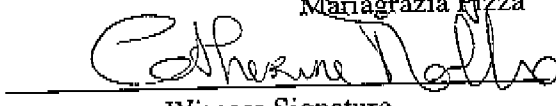


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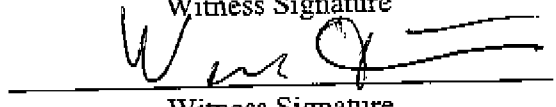
DATE 6/10/2003 _____



 Mariagrazia Pizza



 Witness Signature



 Witness Signature

PATENT

Atty. Docket No. 17949.003

DATE 6/10/2003

Rino Rappuoli
Rino Rappuoli

Catherine Dollo

Witness Signature

Wm D. [Signature]

Witness Signature