

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Giuliano BENSI</td><td>11/19/2008</td></tr><tr><td>Guido GRANDI</td><td>11/19/2008</td></tr><tr><td>Nathalie NORAIS</td><td>11/17/2008</td></tr><tr><td>Manuel J. Rodriguez ORTEGA</td><td>11/21/2008</td></tr></tbody></table>	Name	Execution Date	Giuliano BENSI	11/19/2008	Guido GRANDI	11/19/2008	Nathalie NORAIS	11/17/2008	Manuel J. Rodriguez ORTEGA	11/21/2008	
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Nathalie NORAIS	11/17/2008										
Manuel J. Rodriguez ORTEGA	11/21/2008										
RECEIVING PARTY DATA											
Name:	Novartis Vaccines and Diagnostics S.r.l.										
Street Address:	Novartis Via Fiorentina 1										
City:	Siena										
State/Country:	ITALY										
Postal Code:	53100										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11792038</td></tr></tbody></table>	Property Type	Number	Application Number:	11792038							
Property Type	Number										
Application Number:	11792038										
CORRESPONDENCE DATA											
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NAME OF SUBMITTER:	Lisa M. Hemmendinger										
Total Attachments: 2											

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PATENT
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ASSIGNMENT

WHEREAS WE, Giuliano BENSI, Guido GRANDI, Nathalie NORAIS, and Manuel J. Rodriguez ORTEGA have invented certain inventions and improvements described in U.S. Patent application Serial No. 11/792,038 filed June 1, 2007 and entitled "IMMUNOGENIC AND THERAPEUTIC COMPOSITIONS FOR STREPTOCOCCUS PYOGENES"; and

WHEREAS, Novartis Vaccines and Diagnostics S.r.l., having a place of business at Via Fiorentina 1, 53000 Siena, Italy, wants to acquire our entire right, title and interest in and to the aforesaid inventions and in and to any Letters Patent of the United States or any foreign country which may be granted therefor;

NOW THEREFORE, for good and valuable consideration, WE, the said Giuliano BENSI, Guido GRANDI, Nathalie NORAIS, and Manuel J. Rodriguez ORTEGA, do sell, assign, and transfer to Novartis Vaccines and Diagnostics S.r.l., its successors, legal representatives and assigns, our entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions, including all priority rights for other countries arising therefrom, and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof;

AND WE HEREBY authorize and request the Director of the U.S. Patent and Trademark Office or any other proper officer or agency of any country to issue all said Letters Patent to said assignee;

AND WE HEREBY warrant and covenant that we have full right to convey our entire interest herein assigned and that we have not executed and will not execute any instrument or assignment in conflict herewith;

AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said invention, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said invention, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said assignee to obtain and enforce said Letters Patent in the United States or any foreign country when requested so to do by said assignee.

IN WITNESS WHEREOF, WE have hereunto set our hand and seal.

Date: 19/NOV/2008 Inventor: Giuliano BENSI

Date: 19/NOV/2008 Inventor: Guido GRANDI

Serial No. 11/792,038
PP022773.0004

Date: 17/Nov/2008

Inventor: Nathalie NORAIS

Date: 21/Nov/2008

Inventor: Manuel J. Rodriguez ORTEGA