

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3929770

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NOVARTIS VACCINES AND DIAGNOSTICS INC	06/15/2016
RECEIVING PARTY DATA	
Name:	GLAXOSMITHKLINE BIOLOGICALS SA
Street Address:	RUE DE L'INSTITUT 89
City:	RIXENSART
State/Country:	BELGIUM
Postal Code:	1330
PROPERTY NUMBERS Total: 4	
Property Type	Number
Patent Number:	7709009
Patent Number:	8128936
Patent Number:	8529913
Patent Number:	9056912
CORRESPONDENCE DATA	
Fax Number:	(610)270-6812
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	6102706812
Email:	us_cipkop@gsk.com
Correspondent Name:	GLAXOSMITHKLINE
Address Line 1:	709 SWEDELAND ROAD
Address Line 2:	UW2220
Address Line 4:	KING OF PRUSSIA, PENNSYLVANIA 19406
ATTORNEY DOCKET NUMBER:	VN51962
NAME OF SUBMITTER:	CARLY MORROW
SIGNATURE:	/Carly Morrow/
DATE SIGNED:	06/22/2016
Total Attachments: 2	
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CONFIRMATORY ASSIGNMENT

WE **NOVARTIS VACCINES AND DIAGNOSTICS INC** a company duly incorporated in the state of Delaware, and having a registered office at 2711 Centerville Road, Suite 400 Wilmington, Delaware 19808 United States of America do hereby declare that we are the sole owner of the following patents entitled "IMMUNOGENIC COMPOSITIONS FOR STREPTOCOCCUS PYOGENES".

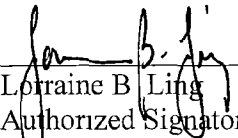
Country	Application Date	Application Number	Grant Date	Patent Number
Austria	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Belgium	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Canada	30-Jul-04	2532369		
European Patent Convention	30-Jul-04	04809528 5	09-Jul-14	EP1648500
France	30-Jul-04	04809528 5	09-Jul-14	EP1648500
United Kingdom	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Germany	30-Jul-04	04809528 5	09-Jul-14	602004045443 5
Ireland	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Italy	30-Jul-04	502014000000643	09-Jul-14	EP1648500
Japan	30-Jul-04	2006-522121	02-Dec-11	4875490
Netherlands	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Poland	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Portugal	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Switzerland	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Spain	30-Jul-04	04809528 5	09-Jul-14	EP1648500
Turkey	30-Jul-04	2014/11611	09-Jul-14	TR201411611
United States	30-Jul-04	10/565126	04-May-10	7709009
United States	02-Mar-10	12/715912	06-Mar-12	8128936
United States	02-Mar-12	13/411095	10-Sep-13	8529913
United States	09-Sep-13	14/021128	16-Jun-15	9056912

Whereas in accordance with the Patent Assignment Agreement dated 26 February 2015 between **NOVARTIS VACCINES AND DIAGNOSTICS INC** and **NOVARTIS AG**, for good and valuable consideration, the receipt of which is hereby acknowledged, we **NOVARTIS VACCINES AND DIAGNOSTICS INC** have assigned the entire right, title and interest and from which priority may be claimed from one or more applications, or any division, continuation and continuation-in-part of said application to in and to said patent application and all countries in which this/ these application(s) are filed to **NOVARTIS AG** of Lichtstrasse 35, 4056 Basel, Switzerland


And in accordance with the Intellectual Property Assignment Agreement dated 2 March 2015 between **NOVARTIS AG** and **GLAXOSMITHKLINE BIOLOGICALS SA**, for good and valuable consideration, the receipt of which is hereby acknowledged, we **NOVARTIS AG** have assigned the entire right, title and interest and from which priority may be claimed from one or more applications, or any division, continuation and continuation-in-part of said application to in and to said patent application and all countries in which this/ these application(s) are filed to **GLAXOSMITHKLINE BIOLOGICALS SA** of Rue de l'Institut 89, 1330 Rixensart, Belgium

Dated this 15 day of June 2016.

Signed for and on behalf of
NOVARTIS VACCINES AND DIAGNOSTICS INC

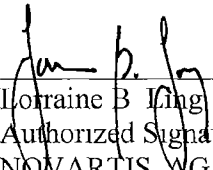


Lorraine B. Ling
Authorized Signatory on behalf of
NOVARTIS VACCINES AND DIAGNOSTICS INC

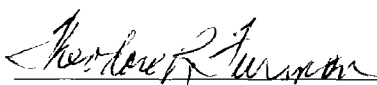


Theodore R. Furman
Authorized Signatory on behalf of
NOVARTIS VACCINES AND DIAGNOSTICS INC

Signed for and on behalf of
NOVARTIS AG




Lorraine B. Ling
Authorized Signatory on behalf of
NOVARTIS AG



Theodore R. Furman
Authorized Signatory on behalf of
NOVARTIS AG

Signed for and on behalf of
GLAXOSMITHKLINE BIOLOGICALS SA



William R. Majarian
Authorized Official on behalf of
GLAXOSMITHKLINE BIOLOGICALS SA