

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3759774

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CONFIRMATORY ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NOVARTIS AG	02/19/2016
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: 1	
Property Type	Number
Application Number:	14363387
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	002441.00337
NAME OF SUBMITTER:	LISA M. HEMMENDINGER
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DATE SIGNED:	02/29/2016
Total Attachments: 2	
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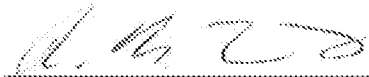
CONFIRMATORY ASSIGNMENT

WE, NOVARTIS AG a company limited by shares duly incorporated in Switzerland and whose registered office is at Lichtstrasse 35, 4056 Basel, Switzerland do hereby declare that we are the sole owner of the patents/applications listed on the attached Schedule 1 and entitled CLOSTRIDIUM DIFFICILE TOXIN-BASED VACCINE.

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 19 FEB 2016

Signed for and on behalf of
NOVARTIS AG



RACHEL H THORNLEY

Authorized Signatory on behalf of
NOVARTIS AG



KAREN A CRAWLEY
Authorized Signatory on behalf of
NOVARTIS AG

Dated this 22 FEB 2016

Signed for and on behalf of
GLAXOSMITHKLINE BIOLOGICALS SA



RICHARD L. EISENMAN

Attorney and Authorized Official on behalf of
GLAXOSMITHKLINE BIOLOGICALS SA

VNS4763

SCHEDULE 1

Country	Application Number	Application Date
Australia	2012349753	07-Dec-12
Brazil	BR1120140138761	07-Dec-12
Canada	2858519	07-Dec-12
China P.R.	201280060487.1	07-Dec-12
European Patent Convention	12826538.6	07-Dec-12
India	4071/CHENP/2014	07-Dec-12
Israel	232957	07-Dec-12
Japan	2014-545387	07-Dec-12
Korea South	10-2014-7015480	07-Dec-12
Mexico	MX/A/14/006630	07-Dec-12
Russian Federation	2014127714	07-Dec-12
Singapore	11201402375V	07-Dec-12
United States	14/353387	07-Dec-12