

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4075109

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NOVARTIS AG	06/15/2016
RECEIVING PARTY DATA	
Name:	GLAXOSMITHKLINE BIOLOGICALS SA
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Postal Code:	1330
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	14035750
Application Number:	13255002
Application Number:	61157921
Application Number:	14831535
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NAME OF SUBMITTER:	CARLY MORROW
SIGNATURE:	/Carly Morrow/
DATE SIGNED:	09/29/2016
Total Attachments: 2	
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CONFIRMATORY ASSIGNMENT

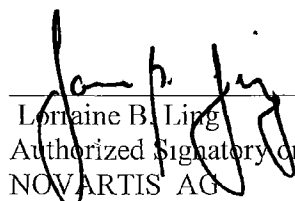
WE, **NOVARTIS AG** a company limited by shares duly incorporated in Switzerland and whose registered office is at Lichtstrasse 35, 4056 Basel, Switzerland do hereby declare that we are the sole owner of the following patents/ patent applications entitled "CHLAMYDIA ANTIGENS"

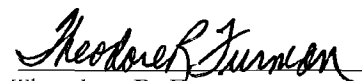
Country	Application Date	Application Number	Grant Date	Patent Number
Australia	08-Mar-10	2010220103		
Brazil	08-Mar-10	PI1009099-1		
Canada	08-Mar-10	2754618		
China P R	08-Mar-10	201080019379 0		
European Patent Convention	08-Mar-10	10710661 9		
India	08-Mar-10	3594/KOLNP/2011		
Japan	08-Mar-10	2011-552570		
New Zealand	08-Mar-10	594920		
Patent Cooperation Treaty	08-Mar-10	PCT/IB2010/050988		
Russian Federation	08-Mar-10	2011140508		
South Africa	08-Mar-10	2011/06481	26-Feb-14	2011/06481
United States	24-Sep-13	14/035750	06-Oct-15	9151756
United States	08-Mar-10	13/255002	29-Oct-13	8568732
United States	06-Mar-09	61/157921		
United States	20-Aug-15	14/831535		

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

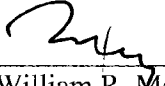
Dated this 15 day of June 2016 .

Signed for and on behalf of
NOVARTIS 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