

PATENT ASSIGNMENT COVER SHEET

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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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City:	RIXENSART	
State/Country:	BELGIUM	
Postal Code:	B-1330	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16274822	
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NAME OF SUBMITTER:	ABIGAIL HEDLEY	
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DATE SIGNED:	10/26/2021	
Total Attachments: 2		
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CONFIRMATORY ASSIGNMENT

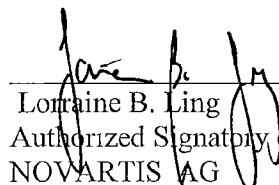
WE, **NOVARTIS AG** a company limited by shares duly incorporated in Switzerland and whose registered office is at Lichtstrasse 35, 4056 Basel, Switzerland do hereby declare that we are the sole owner of the following patents/ patent applications entitled "PURIFICATION OF STAPHYLOCOCCUS AUREUS TYPE 5 AND TYPE 8 CAPSULAR POLYSACCHARIES".

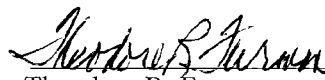
Country	Application Date	Application Number	Grant Date	Patent Number
Australia	01-Nov-10	2010310919	20-Aug-15	2010310919
Brazil	01-Nov-10	BR1120120102230		
Canada	01-Nov-10	2779578		
China P R	01-Nov-10	201080060554 0		
European Patent Convention	01-Nov-10	10782040 9		
Japan	01-Nov-10	2012-536006	08-Apr-16	5914344
Japan	30-Dec-15	2015-257722		
Mexico	17-Dec-15	MX/a/2015/017594		
Mexico	01-Nov-10	MX/A/2012/004851	18-Dec-15	335875
Russian Federation	01-Nov-10	2012122237	10-Apr-16	2579900
Singapore	30-Oct-14	10201407096R	25-Apr-16	10201407096R
United States	15-May-15	14/714097		
United States	01-Nov-10	13/504920	23-Jun-15	9060965

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

VN53615

Signed for and on behalf of
GLAXOSMITHKLINE BIOLOGICALS SA



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