

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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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	
Street Address:	RUE DE L'INSTITUT 89	
City:	RIXENSART	
State/Country:	BELGIUM	
Postal Code:	1330	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	13670727
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ATTORNEY DOCKET NUMBER:	VN54803	
NAME OF SUBMITTER:	CARLY MORROW	
SIGNATURE:	/Carly Morrow/	
DATE SIGNED:	06/22/2016	
Total Attachments: 1		
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CONFIRMATORY ASSIGNMENT

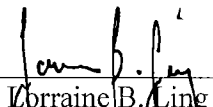
WE, **NOVARTIS AG** a company limited by shares duly incorporated in Switzerland and whose registered office is at Lichtstrasse 35, 4056 Basel, Switzerland do hereby declare that we are the sole owner of the following patents/ patent applications entitled "CARRIER MOLECULE COMPRISING A SPR0096 AND A SPR2021 ANTIGEN".

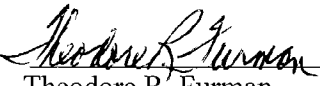
Country	Application Date	Application Number
Australia	07-Nov-12	2012335208
Canada	07-Nov-12	2854934
China P R	07-Nov-12	201280066357 9
European Patent Convention	07-Nov-12	12788647 1
Japan	07-Nov-12	2014-539463
Mexico	07-Nov-12	MX/a/14/005372
Russian Federation	07-Nov-12	2014123021
United States	07-Nov-12	13/670727

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