

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	4
CONVEYING PARTY DATA	
Name	Execution Date
DEREK O'HAGAN	09/22/2015
RECEIVING PARTY DATA	
Name:	NOVARTIS VACCINES AND DIAGNOSTICS INC.
Street Address:	350 MASSACHUSETTS AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14764997
CORRESPONDENCE DATA	
Fax Number:	(415)268-7522
<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:	415-268-6846
Email:	mstout@mofo.com
Correspondent Name:	OTIS LITTLEFIELD
Address Line 1:	MORRISON & FOERSTER LLP
Address Line 2:	425 MARKET STREET
Address Line 4:	SAN FRANCISCO, CALIFORNIA 94105-2482
ATTORNEY DOCKET NUMBER:	303822015800
NAME OF SUBMITTER:	OTIS LITTLEFIELD
SIGNATURE:	/Otis Littlefield/
DATE SIGNED:	01/24/2017
Total Attachments: 3	
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ASSIGNMENT

WHEREAS I/WE, **Derek O'HAGAN** a citizen of the United States of Cambridge, Massachusetts, US (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "INTRADERMAL DELIVERY OF IMMUNOLOGICAL COMPOSITIONS COMPRISING TOLL-LIKE RECEPTOR AGONISTS" (hereinafter referred to as "the invention and improvements") for which priority application 61/759751 was filed on 01 Feb 2013 in the United States; 13169596.7 filed on 28 May 2013 in the European Patent Office, and for which a PCT international application PCT/EP2014/051860 was filed on 30 Jan 2014, designating the United States of America.

WHEREAS **NOVARTIS VACCINES AND DIAGNOSTICS INC.**, a company organised under the laws of the State of Delaware, whose address is 350 Massachusetts Avenue, Cambridge, Massachusetts 02139, United States of America, is desirous of acquiring the whole right, title and interest in and to said invention and improvements, and in and to any applications for said invention and improvements and any Letters Patent to be obtained therefor, in all countries, including the United States, its territories and possessions,

WHEREAS **NOVARTIS AG**, a company incorporated in Switzerland whose registered address is Lichtstrasse 35, 4056 Basel, Switzerland. is desirous of acquiring from **NOVARTIS VACCINES AND DIAGNOSTICS INC.** the whole right, title and interest in and to the invention and improvements and in and to the application, and

WHEREAS **GLAXOSMITHKLINE BIOLOGICALS SA** a company incorporated in Belgium whose registered address is Rue de l'Institut 89, B-1330 Rixensart, Belgium, is desirous of acquiring from **NOVARTIS AG** the whole right, title and interest in and to the invention and improvements and in and to any applications for the invention and improvements and any Letters Patent to be obtained therefor, in all countries, including the United States of America, its territories and possessions;

NOW, THEREFORE, to all whom it may concern be it known that I/we, the inventor(s), hereby confirm the ownership by **NOVARTIS VACCINES AND DIAGNOSTICS INC.** of the invention and

improvements and the application by operation of law and, if under the law of the United States of America I/we the inventor(s) have any ownership right, title and interest in and to the invention and improvements and the application, (which I/we do not believe to be the case and claim no ownership right, title or interest in and to the invention and improvements and to the application based on the law of the United States of America), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and improvements and to the application, including the right to claim priority from the application in respect of any subsequent applications, to NOVARTIS VACCINES AND DIAGNOSTICS INC. NOVARTIS VACCINES AND DIAGNOSTICS INC. in turn hereby assigns and transfers to NOVARTIS AG its whole right, title and interest in and to the invention and improvements and in and to the application.

NOVARTIS AG in turn hereby assigns and transfers to **GLAXOSMITHKLINE BIOLOGICALS SA** its whole right, title and interest in all countries, including the United States of America, its territories and possessions in and to the invention and improvements and in and to the application including the right to claim priority from the application in respect of any subsequent applications, and in and to any divisional application, continuation or continuation in part application thereof, and in and to any Supplementary Protection Certificate, extension or re-issue thereof, and I/we the inventor(s) and NOVARTIS VACCINES AND DIAGNOSTICS INC. and NOVARTIS AG authorise and request any patent arising therefrom, in all countries, including the United States of America, its territories and possessions, be issued to **GLAXOSMITHKLINE BIOLOGICALS SA** hereby;

AND NOVARTIS VACCINES AND DIAGNOSTICS INC., and NOVARTIS AG, and I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of **GLAXOSMITHKLINE BIOLOGICALS SA** hereby to provide information and make execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in **GLAXOSMITHKLINE BIOLOGICALS SA** hereby, its successors and assigns, the whole right, title and interest in and to the invention and improvements and in and to the application hereby

assigned and transferred in all countries, including the United States of America, its territories and possessions.

IN WITNESS whereof and with effect from the 01 Feb 2013, the inventor(s) and the Attorney & Authorised Official of NOVARTIS VACCINES AND DIAGNOSTICS INC., NOVARTIS AG and GLAXOSMITHKLINE BIOLOGICALS SA have hereunto set their respective hands.

Derek O'Hagan 9/22/15
Derek O'HAGAN Date

SIGNED by Helen Lee
As the Attorney & Authorised Official of NOVARTIS VACCINES AND DIAGNOSTICS INC.:

Helen Lee Date: 22 September 2015
Signature HELEN LEE

SIGNED by Laurence Shumway
As the Attorney & Authorised Official of NOVARTIS AG

Laurence Shumway Date: 22 September 2015
Signature

SIGNED by Theodore R. Furman
As the Attorney & Authorised Official of GLAXOSMITHKLINE BIOLOGICALS SA:

Theodore R. Furman Date: 22 September 2015
Signature