

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3876014

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	NOVARTIS VACCINES & DIAGNOSTICS, INC.	04/27/2012
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	NOVARTIS AG	
<b>Street Address:</b>	LICHTSTRASSE 35	
<b>City:</b>	BASEL	
<b>State/Country:</b>	SWITZERLAND	
<b>Postal Code:</b>	4056	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14102159
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(212)407-7799	
<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>		
<b>Phone:</b>	212-407-7700	
<b>Email:</b>	IPDOCKETNY@VEDDERPRICE.COM	
<b>Correspondent Name:</b>	VEDDER PRICE P.C.	
<b>Address Line 1:</b>	1633 BROADWAY	
<b>Address Line 2:</b>	47TH FLOOR	
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10019	
<b>ATTORNEY DOCKET NUMBER:</b>	45980.03.2019	
<b>NAME OF SUBMITTER:</b>	BRENDY LYNN BELONY	
<b>SIGNATURE:</b>	/Brendy Lynn Belony/	
<b>DATE SIGNED:</b>	05/17/2016	
<b>Total Attachments: 3</b>		
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## ASSIGNMENT OF PATENT APPLICATION

Whereas Novartis Vaccines & Diagnostics Inc., a corporation of the country of the United States of America, having a place of business at 4560 Horton Street, Emeryville, California, 94608 USA, ("ASSIGNOR") and Novartis AG, a corporation of Switzerland having a place of business at Lichtstrasse 35, 4056 Basel, Switzerland, ("ASSIGNEE") have agreed that ASSIGNEE shall acquire from ASSIGNOR the following patents and/or patent applications ("PATENT PROPERTIES"):

<u>Patent No.</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Issue Date</u>
	13/309,842	December 2, 2011	
	61/009,425	December 28, 2007	

Therefore, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR, the owner of the entire right, title, and interest in the PATENT PROPERTIES, hereby sells, assigns, transfers and conveys to ASSIGNEE, its designees, successors, assigns and legal representatives, the entire right, title and interest in the PATENT PROPERTIES and all divisions, continuations, reissues and reexaminations thereof, the inventions therein, and all rights to claim priority from the PATENT PROPERTIES and all applications for patent that may be filed for the inventions in any foreign country and all patents that may be granted on the inventions in any foreign country, and all extensions, renewals, and reissues thereof; each and every of the foregoing rights, titles and interests herein assigned shall be held and enjoyed by ASSIGNEE, its successors, assigns and legal representatives, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

IN TESTIMONY WHEREOF, Assignor has caused this Assignment to be duly executed in its name and behalf by affixing its hand and seal thereto by its designated officer, director, or agent, whose name and title appear below.

Executed at Emeryville, California this 27 day of April, 2012.

Novartis Vaccines & Diagnostics, Inc.



Signature

Name: Amy Hessler

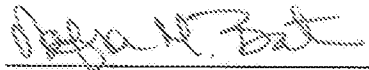
Title: Attorney-in-Fact

State of California )  
County of Alameda )

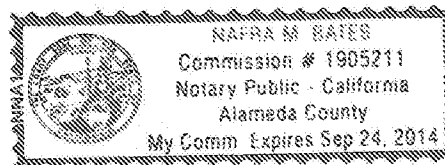
On April 27, 2012 before me, Nafra M. Bates **Notary Public**, personally appeared Amy Hessler, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature of Notary Public



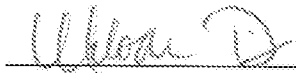
Place Notary Seal Above

**ACCEPTANCE OF ASSIGNMENT**

With reference to the Assignment to NOVARTIS AG of an invention entitled "POLYCHLORINATED BIPHENYLS AND SQUALENE-CONTAINING ADJUVANTS" signed by Novartis Vaccines and Diagnostics, Inc.; this will certify that NOVARTIS AG accepts such Assignment.

**NOVARTIS AG**

By :





Name :

Melodi K. Dice

Lisa Nash

Function :

Authorized Representative

Authorized Representative

Date:

30 April 2012