

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5643774

<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 INSTITUTES FOR BIOMEDICAL RESEARCH INC.	07/10/2017
<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>	
<b>Application Number:</b>	16291561	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>	6178718363	
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<b>Correspondent Name:</b>	TARA M MELANSON	
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<b>Address Line 4:</b>	CAMBRIDGE, MASSACHUSETTS 02139	
<b>ATTORNEY DOCKET NUMBER:</b>	PAT057146-US-CNT02	
<b>NAME OF SUBMITTER:</b>	TARA M MELANSON	
<b>SIGNATURE:</b>	/Tara M Melanson/	
<b>DATE SIGNED:</b>	07/30/2019	
<b>Total Attachments: 2</b>		
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INTERNATIONAL CONFIRMATORY ASSIGNMENT

This Assignment between

**NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC.** of 181 Massachusetts Avenue,  
Cambridge, MA 02139, USA  
(hereinafter referred to as ASSIGNOR)

AND

**NOVARTIS AG** of Lichtstrasse 35, 4056 Basel, Switzerland  
(hereinafter referred to as ASSIGNEE)

WHEREAS ASSIGNOR is the successor in interest to all legal rights and assets of **ADMUNE THERAPEUTICS LLC** of 107 Water Street, Danvers, MA 01923, USA (hereinafter referred to as ADMUNE) as a result of the merger of ADMUNE with and into ASSIGNOR as of June 20, 2017.

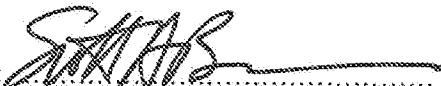
WHEREAS, as a result, the ASSIGNOR is the applicant/holder of the patent application number(s) listed on the attached Schedule (formerly held by ADMUNE).

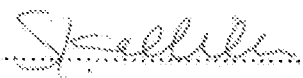
And WHEREAS the ASSIGNOR does hereby confirm that by virtue of an agreement dated **October 16, 2015** (the "Agreement"), ADMUNE agreed to assign all its right, title and interest in the said patent to the ASSIGNEE upon the terms hererin set out (as to which Agreement ASSIGNOR obtained all rights and obligations as a result of such merger).

NOW IT IS AGREED that in pursuance of the said Agreement the ASSIGNOR hereby assigns for good and valuable consideration and set over unto the ASSIGNEE all their right, title and interest in and to the said inventions and Letters Patent and the sole and exclusive benefits thereof and rights, powers and advantages whatsoever in or in respect of the said invention and Letters Patent TO HOLD the same unto the ASSIGNEE absolutely.

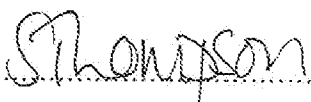
IN WITNESS THEREOF these presents have been executed by the parties, hereto in accordance with their respective constitutions the day written below.


EXECUTED on behalf of **Novartis Institutes for Biomedical Research, Inc.**  
by the undersigned authorized officer thereof in the presence of the undersigned competent witness.

Sign:   
Name: **Scott Brown**  
Position: **secretary**  
Place: **Cambridge, MA, USA** Date: **July 10, 2017**

Witness:   
Name: **Shannon Kellher**  
Position: **Executive Assistant, M&A Legal**  
Place: **Cambridge, MA 02139** Date: **7/10/17**

EXECUTED on behalf of **Novartis AG**  
by the undersigned authorized officer thereof in the presence of the undersigned competent witness.

Sign:   
Name: **Sarah Thompson**  
Position: **Senior Patent Attorney**  
Place: **Basel** Date: **18th July 2017**

Witness:   
Name: **Giulia Cecarelli** **M&A J. Finance (M&A)**  
Position: **PATENT** **PATENT**  
Place: **Basel** Date: **18th July 2017**

Sign: Lachlan Campbell

Name: Lachlan Campbell  
Position: Europe Chemistry Head NIBR Patents  
Place: Basel, Switzerland Date: 18 July 2017

Witness: Julia Ceramelli Patricia Fournier

Name: Julia Ceramelli  
Position: Patent Legal  
Place: Basel Date: 18th July 2017

Schedule

Country	Application/Patent Number	Novartis Reference Number
United States of America	12/666052	PAT057146-US-PCT
United States of America	14/436523	PAT057145-US-PCT
United States of America	62/030394	PAT057151-US-PSP