PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VALDAS JURKAUSKAS	08/10/2015
KRISTOS ADRIAN MOSHOS	08/10/2015
YOU SEOK HWANG	08/10/2015

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15503564

CORRESPONDENCE DATA

Fax Number: (732)594-4720

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.

Phone: 732-594-3904

Email: US EFS@MERCK.COM

MERCK SHARP & DOHME CORP. **Correspondent Name:** Address Line 1: 126 EAST LINCOLN AVENUE Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	24135
NAME OF SUBMITTER:	PIA PARAS-SANJURJO
SIGNATURE:	/PIA PARAS-SANJURJO/
DATE SIGNED:	09/17/2018

Total Attachments: 3

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PATENT REEL: 046890 FRAME: 0660 505097408

Attorney Docket No.: 24135

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Valdas Jurkauskas, located at Cambridge, Massachusetts,
- (2) Kristos Adrian Moshos, located at Belmont, Massachusetts,
- (3) You Seok Hwang, located at Windham, New Hampshire

(hereinafter ASSIGNOR(S)), **together** with <u>Giovanni Fogliato</u>, located at <u>Barzana, Italy</u>, and <u>Manuel Scanu</u>, located at <u>Milan, Italy</u>, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

INTERMEDIATES IN THE SYNTHESIS OF CEPHALOSPORIN COMPOUNDS

and in the following application(s):

PCT International Application No. having a filing date of August 14, 2015.

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of New Jersey, having an office at 126 East Lincoln Ave Rahway, New Jersey 07065 and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND IWE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filling date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

Worldwide Assignment	
	Attorney Docket No.: 24135
Executed this day of	, 20
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Valdas Jurkauskas	
ACKNOWLEDGEMENT	
of	
County of) 5.5
On this day of	, 20, personally appeared before me Valdas Jurkauskas
	ame person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth.
(Seal)	
(33.)	Notary Public
	Wordly F dalle
Executed this 10 day of lug Ini	, 20 <u>/</u> 5.
Executed this 10 day of luglist Whates makes Kristos Adrian Moshos	, 20 <u>15</u> .
	, 20 <u>/</u> 5.
Kristos Adrian Moshos ACKNOWLEDGEMENT	
Kristos Adrian Moshos ACKNOWLEDGEMENT	
Kristos Adrian Moshos ACKNOWLEDGEMENT) s.s.:) s.s.:) personally appeared before me Kristos Adrian Moshos ame person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth
ACKNOWLEDGEMENT of County of Middlesox On this OH day of Avous to the known, and known by me to be the sa acknowledged that he (she) executed the sa SARA GHIMIRE Notary Public Commonwealth of Macroschus III	
ACKNOWLEDGEMENT of County of Middlesox On this LOH day of Avous to the known, and known by me to be the sa acknowledged that he (she) executed the sa SARA GHIMIRE Notary Public Commonwealth of Macroschus in) s.s.:) s.s.:) personally appeared before me Kristos Adrian Moshos ame person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth
ACKNOWLEDGEMENT of County of Middlesox On this DH day of Avous to the known, and known by me to be the sa acknowledged that he (she) executed the sa SARA GHIMIRE Notary Public Commonwealth of Massachusetts by/Commission Expires April 2, 2021) s.s.:) s.s.:) personally appeared before me Kristos Adrian Moshos ame person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth
ACKNOWLEDGEMENT of County of Middlesox On this DH day of Avous to the known, and known by me to be the sa acknowledged that he (she) executed the sa SARA GHIMIRE Notary Public Commonwealth of Massachusetts by/Commission Expires April 2, 2021) s.s.:)) s.s.:) , 20 (personally appeared before me Kristos Adrian Moshos ame person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth Notary Public
ACKNOWLEDGEMENT of County of Middlesox On this Lott day of Avous to the known, and known by me to be the sa acknowledged that he (she) executed the sa SARN GHIMIRE Notary Public Commonwealth of Massachusetts Modernission Expires April 2, 2021 Executed this day of) s.s.:)) s.s.:) , 20 (personally appeared before me Kristos Adrian Moshos ame person described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth Notary Public

On this _____ day of _____, 20___, personally appeared before me You Seok Hwang to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Page 2 of 2

21361074.1.BUSINESS

(Seal)

County of_

(Seal)

Attorney Docket No.: 24135 Executed this Object of Valdas Jurkauskas **ACKNOWLEDGEMENT** On this day of , 20 , personally appeared before me Valdas Jurkauskas to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth. DONNA ZOGRAFOS NOTARY PUBLIC Commonweath of Massachuss My Commission Expires April 1, 2022 Executed this _____ day of _______, 20 Kristos Adrian Moshos **ACKNOWLEDGEMENT** _, 20___, personally appeared before me Kristos Adrian Moshos to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth. Notary Public Executed this 10 day of ANGUST , 2015. You Seok Hwang **ACKNOWLEDGEMENT** County of SAFFOLK

On this ____ day of AY () _____, 20 ____, personally appeared before me You Seok Hwang to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that own free will for the purpose set forth.

(Seal)

Notary Public

KILEY SCHLIEPER
NOTARY PUBLIC
Commonwealth of Massachusess
My Commission Expires

April 15, 2022