504860676 04/10/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4907415

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYAN	CE:	ASSIGNMENT		
CONVEYING PARTY DA	ТА			
		Name	Execution Date	
NICOLE KALLEWAARD-I	ELAY		04/05/2018	
QING ZHU			04/06/2018	
GODFREY JONAH RAINEY			04/05/2018	
CUIHUA GAO			04/04/2018	
SRINATH KASTURIRANGAN			04/04/2018	
CHANGSHOU GAO			04/05/2018	
RECEIVING PARTY DAT	A			
Name:	MEDIMMUNE, LLC			
Street Address:	ONE MEDIMMUNE WAY			
City:	GAITHERSBURG			
State/Country:	MARYLAND			
Postal Code:	20878			
PROPERTY NUMBERS	fotal: 1	Number		
Property Type		Number		
Application Number:	1	5577799		
CORRESPONDENCE DA	ТА			
Fax Number:	(3	301)398-9306		
		the e-mail address first; if that is unst if that is unsuccessful, it will be sent		
using a fax number, if p	ovided.			
<i>using a fax number, if p</i> Phone:		01-398-0000		
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Phone: Email: Correspondent Name:	3 p A	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE		
Phone: Email: Correspondent Name: Address Line 1:	3 p A C	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE NE MEDIMMUNE WAY		
Phone: Email: Correspondent Name:	3 p A C	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE		
Phone: Email: Correspondent Name: Address Line 1:	3 p A C	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE NE MEDIMMUNE WAY		
Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	3 p A C	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE NE MEDIMMUNE WAY AITHERSBURG, MARYLAND 20878		
Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	3 p A C	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE NE MEDIMMUNE WAY AITHERSBURG, MARYLAND 20878		
Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUI	3 p A C	01-398-0000 atents@astrazeneca.com STRAZENECA MEDIMMUNE NE MEDIMMUNE WAY AITHERSBURG, MARYLAND 20878 FLUAB-100-US-PCT AUDREY CLARK		

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THIS ASSIGNMENT is made as of May 31, 2016 (the "Effective Date") by and between

NICOLE KALLEWAARD-LELAY, a United States citizen, whose post office address is c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, US; QING ZHU, a United States citizen, whose post office address is c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, US; GODFREY JONAH RAINEY, a United States citizen whose post office address is c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, US; CUIHUA GAO, a United States citizen, whose post office address is c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, US; SRINATH KASTURIRANGAN, a United States citizen of MEDIMMUNE LLC, whose post office address is c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, US; SRINATH KASTURIRANGAN, a United States citizen of MEDIMMUNE LLC, whose post office address is c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, Maryland 20878, US, and CHANGSHOU GAO, a United States citizen, whose post office address is c/o MedImmune, Way, Gaithersburg, Maryland 20878, US ("Assignors"); and

MEDIMMUNE, LLC, a limited liability company formed under the laws of the State of Delaware, whose post office address is One MedImmune Way, Gaithersburg, Maryland 20878, the United States of America ("Assignee").

WHEREAS

- A. Assignors have made certain inventions (the "Inventions") for which a United States National Application was filed as United States National Application No. 15/577,799 (International Application No. PCT/US2016/035026) filed on May 31, 2016) (the "Applications").
- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "**Rights**"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

- b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and
- c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

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Date

Date

NICOLE KALLEWAARD-LELAY

<u>4001 5 2018</u> Date

QING ZHU

Date____

GODFREY JONAH RAINEY

CUIHUA GAO

Date

SRINATH KASTURIRANGAN

CHANGSHOU GAO

Date_____

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NICOLE KALLEWAARD-LELAY	Date
QING ZHU	Date <u>Aps: 1.6, 2018</u>
GODFREY JONAH RAINEY	Date
CUIHUA GAO	Date
SRINATH KASTURIRANGAN	Date
CHANGSHOU GAO	Date

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	Date
NICOLE KALLEWAARD-LELAY	
	Date
QING ZHU	
Δp	Date 5 Bpr 2018
GODFREY JONAH RAINEY	
	Date
CUIHUA GAO	
	Date
SRINATH KASTURIRANGAN	
	Date
CHANGSHOU GAO	C+2500

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Date___

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Date

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NICOLE KALLEWAARD-LELAY

QING ZHU

Date ------

GODFREY JONAH RAINEY

CUIHUA GAO

4/2018 Date

SRINATH KASTURIRANGAN

CHANGSHOU GAO

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NICOLE KALLEWAARD-LELAY

QING ZHU

Date_____

Date

Date

GODFREY JONAH RAINEY

CUIHUA GAO

hdets

SRINATH KASTURIRANGAN

Date_____

Date

414/18 Date

CHANGSHOU GAO

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- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "**Rights**"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.

2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.

3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:

a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;

- b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and
- c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

5. This assignment shall be governed by and construed in accordance with the laws of the State of Delaware and the parties hereby submit to the exclusive jurisdiction of the Delaware courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

	Date
NICOLE KALLEWAARD-LELAY	
	Date
QING ZHU	
	Date
GODFREY JONAH RAINEY	
	Date
CUIHUA GAO	
	Date
SRINATH KASTURIRANGAN	
	Date 04/05/2018
CHANGSHOU GAO	~~~~~~

PATENT REEL: 045489 FRAME: 0971

RECORDED: 04/10/2018