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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4453337

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LUIS SOLANS	06/09/2017
CAMILLE LOCHT	06/09/2017
ANNE TSICOPOULOS	06/09/2017
SALIHA AIT-YAHIA SENDID	06/09/2017

RECEIVING PARTY DATA

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Street Address:		
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15472436

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ATTORNEY DOCKET NUMBER: 7056-0074

PATENT REEL: 042662 FRAME: 0647

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NAME OF SUBMITTER:	STANLEY A. KIM	
SIGNATURE:	/STANLEY A. KIM/	
DATE SIGNED:	06/09/2017	
Total Attachments: 2		

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PATENT REEL: 042662 FRAME: 0648

Docket No. 7056-0074

ASSIGNMENT

WHEREAS, we, Luis Solans, Camille Locht, Anne Tsicopoulos, and Salika Ait-Yahia

Sendid (hereinafter collectively referred to as "ASSIGNOR") have invented certain new and useful

improvements for "MUTANT BORDETELLA STRAINS AND METHODS OF USE," for which

we have on March 29, 2017 under Application Serial No. 15/472,436, executed an application for

Letters Patent of the United States, and

WHEREAS, Institut Pasteur de Lille, a French legal entity, 1 rue du Professeur A.

Calmette, BP 245, 59019 Lille Cedex, France and Institut National de la Santé et de la Recherche

Médicale (INSERM), a French legal entity, 101 Rue de Tolbiac, 75654 Paris Cedex 18, France and

(hereinafter collectively referred to as "ASSIGNEE"), are desirous of acquiring the entire right, title

and interest in and to the said inventions or improvements and in and to said application, and in, to

and under any and all Patents which may be granted on or as a result thereof:

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00), and other good and

valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNOR does hereby

sell and assign to the ASSIGNEE, its successors and assigns, the ASSIGNOR'S entire right, title and

interest in and to the said invention and in and to the said application and all patents which may be

granted therefor, and all divisions, reissues, substitutions, continuations and extensions thereof; and

the ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue all patents for

said invention, or patents resulting therefrom, insofar as the ASSIGNOR'S interest is concerned, to

the ASSIGNEE.

The ASSIGNOR also bereby sells and assigns to the ASSIGNEE, the ASSIGNEE'S

successors and assigns, the ASSIGNOR'S foreign rights to the invention disclosed in said

application, in all patent-granting countries of the world, including the right to file applications and

obtain patents for said invention in the ASSIGNEE'S own name in said countries and including all

rights of priority in said countries under the terms of the International Convention for the Protection

of Industrial Property, and the ASSIGNOR further agrees to execute any and all patent applications,

PATENT

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assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

The ASSIGNOR also hereby agrees, at the request and expense of the ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said ASSIGNEE, the ASSIGNEE'S successors and assigns, to obtain and enforce proper patent protection for said invention in all countries.

The ASSIGNOR also hereby grants Stanley A. Kim, Reg. No. 42,730, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Date: 8th June 2017

Date: 03 June 2018

RECORDED: 06/09/2017

LUIS SOLANS

CAMILLE LOCHT

ANNE TSICOPOULOS

FFREEDONINAS