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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GUY BAUDOUX | 04/09/2014 |
| MATHIEU BOXUS | 03/25/2014 |
| BRIGITTE COLAU | 03/21/2014 |
| MARTINE MARCHAND | 03/24/2014 |
| RECEIVING PARTY DATA | |
| Name: | GLAXOSMITHKLINE BIOLOGICALS S.A. |
| Street Address: | RUE DE L'INSTITUT 89 |
| City: | RIXENSART |
| State/Country: | BELGIUM |
| Postal Code: | B-1330 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14774729 |
| CORRESPONDENCE DATA | |
| Fax Number: | (610)270-5090 |
| <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> | |
| Phone: | 610-270-6812 |
| Email: | us_cipkop@gsk.com |
| Correspondent Name: | GLAXOSMITHKLINE GLOBAL PATENTS-US |
| Address Line 1: | 709 SWEDELAND ROAD, P. O. BOX 1539 |
| Address Line 2: | UW2220 |
| Address Line 4: | KING OF PRUSSIA, PENNSYLVANIA 19406-0939 |
| ATTORNEY DOCKET NUMBER: | VB65368 |
| NAME OF SUBMITTER: | JOHNIE JONES |
| SIGNATURE: | /Johnie Jones/ |
| DATE SIGNED: | 03/22/2018 |
| Total Attachments: 6 | |
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Assignment

WHEREAS I/WE, **Guy BAUDOUX, Mathieu BOXUS, Brigitte COLAU, and Martine MARCHAND** all citizens of Belgium and all of Rixensart, Belgium, (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "VACCINE" (hereinafter referred to as "the invention and improvements") for which priority application **61/786765** was filed on **15 Mar 2013** in the **United States**, and for which a PCT international application **PCT/EP2014/054947** was filed on **13 Mar 2014**, designating the United States of America.

WHEREAS **GLAXOSMITHKLINE BIOLOGICALS S.A.**, a company incorporated in Belgium, whose registered office is at rue de l'Institut 89, B-1330 Rixensart, Belgium, is desirous of acquiring the whole right, title and interest in and to the invention, and in and to any applications for the invention and any Letters Patent to be obtained therefor, in all countries, including the United States of America, its territories and possessions;

NOW, THEREFORE, to all whom it may concern, be it known that I/we, the inventors, hereby confirm the ownership by **GLAXOSMITHKLINE BIOLOGICALS S.A.** of the invention and the application by operation of law and, if under the law of the United States of America I/we the inventor(s) have any ownership right, title and interest in and to the invention and the application (which I/we do not believe to be the case and claim no ownership right, title or interest in and to the invention and to the application based on the law of Belgium), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and to the application, including the right to claim priority from the application in respect of any subsequent applications, to **GLAXOSMITHKLINE BIOLOGICALS S.A.** in all countries, including the United States of America, its territories and possessions;

AND I/we, the inventors, hereby assign and transfer to **GLAXOSMITHKLINE BIOLOGICALS S.A.**, my/our whole right title and interest in and to the invention and the application, and in and to any divisional application, continuation or continuation-in-part application thereof, and in and to any Supplementary Protection Certificate, extension or

re-issue thereof, and I/we the inventor(s) hereby authorise and request any patent arising therefrom, in all countries, including the United States, its territories and possessions, be issued to **GLAXOSMITHKLINE BIOLOGICALS S.A.**

AND, I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of **GLAXOSMITHKLINE BIOLOGICALS S.A.**, to provide information and make, execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in said **GLAXOSMITHKLINE BIOLOGICALS S.A.**, its successors and assigns, the whole right, title and interest in and to the invention hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

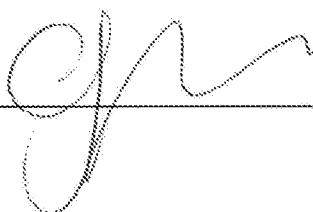
IN WITNESS WHEREOF, and with effect from 15 Mar 2013, I/we the inventors and the Attorney & Authorised Official of **GLAXOSMITHKLINE BIOLOGICALS S.A.** have hereunto set my/our respective hand(s).

Inventor Name

Signature

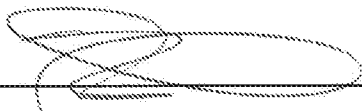
Date

Guy BAUDOUX:



9-Apr-2014


Mathieu BOXUS:



25-03-2014

VB65368

Brigitte COLAU: _____

Martine MARCHAND:  24/03/14

Marcus Jonathan William DALTON

SIGNED by _____

As the Attorney & Authorised Official of GLAXOSMITHKLINE BIOLOGICALS S.A.:


Signature

Date: 14 APR 2014

Assignment

WHEREAS I/WE, **Guy BAUDOUX, Mathieu BOXUS, Brigitte COLAU, and Martine MARCHAND** all citizens of Belgium and all of Rixensart, Belgium, (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "VACCINE" (hereinafter referred to as "the invention and improvements") for which priority application 61/786765 was filed on 15 Mar 2013 in the United States, and for which a PCT international application PCT/EP2014/054947 was filed on 13 Mar 2014, designating the United States of America.

WHEREAS **GLAXOSMITHKLINE BIOLOGICALS S.A.**, a company incorporated in Belgium, whose registered office is at rue de l'Institut 89, B-1330 Rixensart, Belgium, is desirous of acquiring the whole right, title and interest in and to the invention, and in and to any applications for the invention and any Letters Patent to be obtained therefor, in all countries, including the United States of America, its territories and possessions;

NOW, THEREFORE, to all whom it may concern, be it known that I/we, the inventors, hereby confirm the ownership by **GLAXOSMITHKLINE BIOLOGICALS S.A.** of the invention and the application by operation of law and, if under the law of the United States of America I/we the inventor(s) have any ownership right, title and interest in and to the invention and the application (which I/we do not believe to be the case and claim no ownership right, title or interest in and to the invention and to the application based on the law of Belgium), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and to the application, including the right to claim priority from the application in respect of any subsequent applications, to **GLAXOSMITHKLINE BIOLOGICALS S.A.** in all countries, including the United States of America, its territories and possessions;

AND I/we, the inventors, hereby assign and transfer to **GLAXOSMITHKLINE BIOLOGICALS S.A.**, my/our whole right title and interest in and to the invention and the application, and in and to any divisional application, continuation or continuation-in-part application thereof, and in and to any Supplementary Protection Certificate, extension or

re-issue thereof, and I/we the inventor(s) hereby authorise and request any patent arising therefrom, in all countries, including the United States, its territories and possessions, be issued to **GLAXOSMITHKLINE BIOLOGICALS S.A.**

AND, I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of **GLAXOSMITHKLINE BIOLOGICALS S.A.**, to provide information and make, execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in said **GLAXOSMITHKLINE BIOLOGICALS S.A.**, its successors and assigns, the whole right, title and interest in and to the invention hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

IN WITNESS WHEREOF, and with effect from 15 Mar 2013, I/we the inventors and the Attorney & Authorised Official of **GLAXOSMITHKLINE BIOLOGICALS S.A.** have hereunto set my/our respective hand(s).

Inventor Name

Signature

Date

Guy BAUDOUX: _____

Mathieu BOXUS: _____

Brigitte COLAU: *B Colau* *21 March 2014*

Martine MARCHAND: _____

Marcus Jonathan William DALTON

SIGNED by _____

As the Attorney & Authorised Official of GLAXOSMITHKLINE BIOLOGICALS S.A.:

Marcus Jonathan Dalton
Signature

14 APR 2014
Date: