

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>PAUL JOHN BESWICK</td> <td>10/15/2010</td> </tr> <tr> <td>ROBERT JAMES GLEAVE</td> <td>10/06/2010</td> </tr> <tr> <td>SHUJI HACHISU</td> <td>10/02/2010</td> </tr> <tr> <td>SADIE VILE</td> <td>10/04/2010</td> </tr> <tr> <td>NICOLAS BERTHELEME</td> <td>08/10/2010</td> </tr> <tr> <td>SIMON E. WARD</td> <td>10/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	PAUL JOHN BESWICK	10/15/2010	ROBERT JAMES GLEAVE	10/06/2010	SHUJI HACHISU	10/02/2010	SADIE VILE	10/04/2010	NICOLAS BERTHELEME	08/10/2010	SIMON E. WARD	10/07/2010
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>GLAXOSMITHKLINE SERVICES LIMITED</td> </tr> <tr> <td>Street Address:</td> <td>980 GREAT WEST ROAD</td> </tr> <tr> <td>City:</td> <td>BRENTFORD, MIDDLESEX, ENGLAND</td> </tr> <tr> <td>State/Country:</td> <td>UNITED KINGDOM</td> </tr> <tr> <td>Postal Code:</td> <td>TW8 9GS</td> </tr> </table>		Name:	GLAXOSMITHKLINE SERVICES LIMITED	Street Address:	980 GREAT WEST ROAD	City:	BRENTFORD, MIDDLESEX, ENGLAND	State/Country:	UNITED KINGDOM	Postal Code:	TW8 9GS				
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PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13808243</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13808243										
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CORRESPONDENCE DATA															
<p>Fax Number: 8587926773 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 858-847-6700 Email: djones-beasley@foley.com Correspondent Name: Gerald F. Swiss Address Line 1: Foley & Lardner LLP Address Line 2: P.O. Box 80278 Address Line 4: San Diego, CALIFORNIA 92138-0278</p>															
ATTORNEY DOCKET NUMBER:	101212-0800														

OP \$40.00 13808243

NAME OF SUBMITTER:	Gerald F. Swiss
Signature:	/Brian S. Sun/ 64,694 for Gerald Swiss
Date:	05/10/2013
<p>Total Attachments: 24</p> <p>source=101212-0800_Assignment_InventorsToGSK#page1.tif source=101212-0800_Assignment_InventorsToGSK#page2.tif source=101212-0800_Assignment_InventorsToGSK#page3.tif source=101212-0800_Assignment_InventorsToGSK#page4.tif source=101212-0800_Assignment_InventorsToGSK#page5.tif source=101212-0800_Assignment_InventorsToGSK#page6.tif source=101212-0800_Assignment_InventorsToGSK#page7.tif source=101212-0800_Assignment_InventorsToGSK#page8.tif source=101212-0800_Assignment_InventorsToGSK#page9.tif source=101212-0800_Assignment_InventorsToGSK#page10.tif source=101212-0800_Assignment_InventorsToGSK#page11.tif source=101212-0800_Assignment_InventorsToGSK#page12.tif source=101212-0800_Assignment_InventorsToGSK#page13.tif source=101212-0800_Assignment_InventorsToGSK#page14.tif source=101212-0800_Assignment_InventorsToGSK#page15.tif source=101212-0800_Assignment_InventorsToGSK#page16.tif source=101212-0800_Assignment_InventorsToGSK#page17.tif source=101212-0800_Assignment_InventorsToGSK#page18.tif source=101212-0800_Assignment_InventorsToGSK#page19.tif source=101212-0800_Assignment_InventorsToGSK#page20.tif source=101212-0800_Assignment_InventorsToGSK#page21.tif source=101212-0800_Assignment_InventorsToGSK#page22.tif source=101212-0800_Assignment_InventorsToGSK#page23.tif source=101212-0800_Assignment_InventorsToGSK#page24.tif</p>	

ASSIGNMENT

WHEREAS I/WE, **Paul John BESWICK, Robert James GLEAVE, Shuji HACHISU, Sadie VILE, Nicolas BERTHELEME, Simon E WARD**, all of **Harlow, Essex, GB** (hereinafter called "the inventor(s)") have invented or discovered **NOVEL COMPOUNDS** (hereinafter called "the invention") for which a provisional application under 35 U.S.C. §111(b) was filed in the United States of America on *09-Jul-2010* under application number *61/362712*.

WHEREAS the invention, being made in the course of my employment, belongs to my/our employer at that time, namely **GLAXOSMITHKLINE SERVICES UNLIMITED** a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, and

WHEREAS **GLAXOSMITHKLINE SERVICES UNLIMITED** has authorised and requested our making the application, and

WHEREAS **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED**, a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring from **GLAXOSMITHKLINE SERVICES UNLIMITED** the whole right, title and interest in and to the invention and in and to the application, and

WHEREAS **GLAXO GROUP LIMITED** a company incorporated in England whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, 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 inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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

PATENT

REEL: 030398 FRAME: 0098

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 the United Kingdom), 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 SERVICES UNLIMITED. GLAXOSMITHKLINE SERVICES UNLIMITED** in turn hereby assigns and transfers to **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** its whole right, title and interest in and to the invention and in and to the application.

GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED in turn hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in all countries, including the United States of America, its territories and possessions in and to the invention and in and to the application including the right to claim priority from the application in respect of any subsequent applications, 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) and **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby authorise and request any patent arising therefrom, in all countries, including the United States of America, its territories and possessions, be issued to **GLAXO GROUP LIMITED**;

AND **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby, 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 **GLAXO GROUP LIMITED** 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 **GLAXO GROUP LIMITED**, its successors and assigns, the whole right, title and interest in and to the invention and in and to the application hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

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SIGNED by Paul John BESWICK:

Date:

SIGNED by Robert James GLEAVE:

Date:

SIGNED by Shuji HACHISU:

Date:

SIGNED by Sadie VILE:

Date:

SIGNED by Nicolas BERTHELEME:

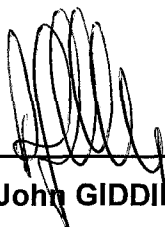


Date: 08/10/10

SIGNED by Simon E WARD:

Date: _____

**SIGNED by Peter John GIDDINGS as the Attorney of GLAXOSMITHKLINE
RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES
UNLIMITED and GLAXO GROUP LIMITED**



Name: Peter John GIDDINGS
Attorney and Authorised Official

- 3 NOV 2010
Date: _____

ASSIGNMENT

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WHEREAS GLAXO GROUP LIMITED a company incorporated in England whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, 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 inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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

PATENT

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AND **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby, 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 **GLAXO GROUP LIMITED** 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 **GLAXO GROUP LIMITED**, its successors and assigns, the whole right, title and interest in and to the invention and in and to the application hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

PATENT

REEL: 030398 FRAME: 0103

IN WITNESS whereof and with effect from the 09-Jul-2010, the inventor(s) and **Peter John GIDDINGS** as Attorney of **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** and **GLAXOSMITHKLINE SERVICES UNLIMITED** by virtue of a Powers of Attorney granted by **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** and **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXO GROUP LIMITED** have hereunto set their respective hands.

SIGNED by Paul John BESWICK:

Date:

SIGNED by Robert James GLEAVE:

Date:

SIGNED by Shuji HACHISU:

Date:

SIGNED by Sadie VILE:



Date: 4th - Oct - 2010

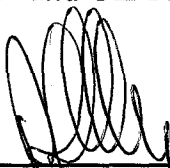
SIGNED by Nicolas BERTHELEME:

Date:

SIGNED by Simon E WARD:

Date: _____

**SIGNED by Peter John GIDDINGS as the Attorney of GLAXOSMITHKLINE
RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES
UNLIMITED and GLAXO GROUP LIMITED**



- 3 NOV 2010

Date: _____

**Name: Peter John GIDDINGS
Attorney and Authorised Official**

ASSIGNMENT

WHEREAS I/WE, **Paul John BESWICK, Robert James GLEAVE, Shuji HACHISU, Sadie VILE, Nicolas BERTHELEME, Simon E WARD**, all of **Harlow, Essex, GB** (hereinafter called "the inventor(s)") have invented or discovered **NOVEL COMPOUNDS** (hereinafter called "the invention") for which a provisional application under 35 U.S.C. §111(b) was filed in the United States of America on *09-Jul-2010* under application number *61/362712*.

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WHEREAS GLAXOSMITHKLINE SERVICES UNLIMITED has authorised and requested our making the application, and

WHEREAS GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring from **GLAXOSMITHKLINE SERVICES UNLIMITED** the whole right, title and interest in and to the invention and in and to the application, and

WHEREAS GLAXO GROUP LIMITED a company incorporated in England whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, 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 inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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

PATENT
REEL: 030398 FRAME: 0106

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 the United Kingdom), 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 SERVICES UNLIMITED. GLAXOSMITHKLINE SERVICES UNLIMITED** in turn hereby assigns and transfers to **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** its whole right, title and interest in and to the invention and in and to the application.

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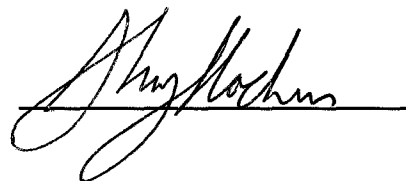
SIGNED by Paul John BESWICK:

Date: _____

SIGNED by Robert James GLEAVE:

Date: _____

SIGNED by Shuji HACHISU:

_____

Date: 2 October 2010

SIGNED by Sadie VILE:

Date: _____

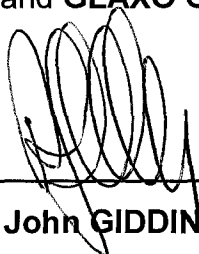
SIGNED by Nicolas BERTHELEME:

Date: _____

SIGNED by Simon E WARD: _____

Date: _____

**SIGNED by Peter John GIDDINGS as the Attorney of GLAXOSMITHKLINE
RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES
UNLIMITED and GLAXO GROUP LIMITED**

A handwritten signature in black ink, consisting of several loops and a long vertical stroke, positioned over a horizontal line.

Name: Peter John GIDDINGS
Attorney and Authorised Official

- 3 NOV 2010
Date: _____

ASSIGNMENT

WHEREAS I/WE, **Paul John BESWICK, Robert James GLEAVE, Shuji HACHISU, Sadie VILE, Nicolas BERTHELEME, Simon E WARD**, all of **Harlow, Essex, GB** (hereinafter called "the inventor(s)") have invented or discovered **NOVEL COMPOUNDS** (hereinafter called "the invention") for which a provisional application under 35 U.S.C. §111(b) was filed in the United States of America on *09-Jul-2010* under application number *61/362712*.

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WHEREAS GLAXOSMITHKLINE SERVICES UNLIMITED has authorised and requested our making the application, and

WHEREAS GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring from **GLAXOSMITHKLINE SERVICES UNLIMITED** the whole right, title and interest in and to the invention and in and to the application, and

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NOW, THEREFORE, to all whom it may concern be it known that I/we, the inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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

PATENT

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PATENT

REEL: 030398 FRAME: 0111

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SIGNED by Paul John BESWICK:

Date: _____

SIGNED by Robert James GLEAVE:

_____

Date: *6 October 2010*

SIGNED by Shuji HACHISU:

Date: _____

SIGNED by Sadie VILE:

Date: _____

SIGNED by Nicolas BERTHELEME:

Date: _____

SIGNED by Simon E WARD: _____

Date: _____

**SIGNED by Peter John GIDDINGS as the Attorney of GLAXOSMITHKLINE
RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES
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A handwritten signature in black ink, consisting of several overlapping loops and a final downward stroke, positioned above a horizontal line.

Name: Peter John GIDDINGS
Attorney and Authorised Official

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NOW, THEREFORE, to all whom it may concern be it known that I/we, the inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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

PATENT

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 the United Kingdom), 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 SERVICES UNLIMITED. GLAXOSMITHKLINE SERVICES UNLIMITED** in turn hereby assigns and transfers to **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** its whole right, title and interest in and to the invention and in and to the application.

GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED in turn hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in all countries, including the United States of America, its territories and possessions in and to the invention and in and to the application including the right to claim priority from the application in respect of any subsequent applications, 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) and **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby authorise and request any patent arising therefrom, in all countries, including the United States of America, its territories and possessions, be issued to **GLAXO GROUP LIMITED**;

AND GLAXOSMITHKLINE SERVICES UNLIMITED and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby, 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 **GLAXO GROUP LIMITED** 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 **GLAXO GROUP LIMITED**, its successors and assigns, the whole right, title and interest in and to the invention and in and to the application hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

PATENT

REEL: 030398 FRAME: 0115

IN WITNESS whereof and with effect from the 09-Jul-2010, the inventor(s) and Peter John GIDDINGS as Attorney of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES UNLIMITED by virtue of a Powers of Attorney granted by GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXO GROUP LIMITED have hereunto set their respective hands.

SIGNED by Paul John BESWICK:

P. J. Beswick

Date: 15 October 2010

SIGNED by Robert James GLEAVE:

Date: _____

SIGNED by Shuji HACHISU:

Date: _____

SIGNED by Sadie VILE:

Date: _____

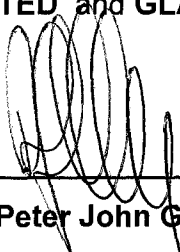
SIGNED by Nicolas BERTHELEME:

Date: _____

SIGNED by Simon E WARD:

Date: _____

**SIGNED by Peter John GIDDINGS as the Attorney of GLAXOSMITHKLINE
RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES
UNLIMITED and GLAXO GROUP LIMITED**

A handwritten signature in black ink, consisting of several loops and a trailing line, positioned above a horizontal line.

**Name: Peter John GIDDINGS
Attorney and Authorised Official**

Date: -3 NOV 2010

ASSIGNMENT

WHEREAS I/WE, **Paul John BESWICK, Robert James GLEAVE, Shuji HACHISU, Sadie VILE, Nicolas BERTHELEME, Simon E WARD**, all of **Harlow, Essex, GB** (hereinafter called "the inventor(s)") have invented or discovered **NOVEL COMPOUNDS** (hereinafter called "the invention") for which a provisional application under 35 U.S.C. §111(b) was filed in the United States of America on *09-Jul-2010* under application number *61/362712*.

WHEREAS the invention, being made in the course of my employment, belongs to my/our employer at that time, namely **GLAXOSMITHKLINE SERVICES UNLIMITED** a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, and

WHEREAS GLAXOSMITHKLINE SERVICES UNLIMITED has authorised and requested our making the application, and

WHEREAS GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring from **GLAXOSMITHKLINE SERVICES UNLIMITED** the whole right, title and interest in and to the invention and in and to the application, and

WHEREAS GLAXO GROUP LIMITED a company incorporated in England whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, 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 inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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

PATENT

REEL: 030398 FRAME: 0118

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 the United Kingdom), 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 SERVICES UNLIMITED. GLAXOSMITHKLINE SERVICES UNLIMITED** in turn hereby assigns and transfers to **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** its whole right, title and interest in and to the invention and in and to the application.

GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED in turn hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in all countries, including the United States of America, its territories and possessions in and to the invention and in and to the application including the right to claim priority from the application in respect of any subsequent applications, 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) and **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby authorise and request any patent arising therefrom, in all countries, including the United States of America, its territories and possessions, be issued to **GLAXO GROUP LIMITED**;

AND GLAXOSMITHKLINE SERVICES UNLIMITED and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby, 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 **GLAXO GROUP LIMITED** 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 **GLAXO GROUP LIMITED**, its successors and assigns, the whole right, title and interest in and to the invention and in and to the application hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

PATENT

REEL: 030398 FRAME: 0119

IN WITNESS whereof and with effect from the *09-Jul-2010*, the inventor(s) and **Peter John GIDDINGS** as Attorney of **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** and **GLAXOSMITHKLINE SERVICES UNLIMITED** by virtue of a Powers of Attorney granted by **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT** and **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXO GROUP LIMITED** have hereunto set their respective hands.

SIGNED by Paul John BESWICK:

Date: _____

SIGNED by Robert James GLEAVE:

Date: _____

SIGNED by Shuji HACHISU:

Date: _____

SIGNED by Sadie VILE:

Date: _____

SIGNED by Nicolas BERTHELEME:

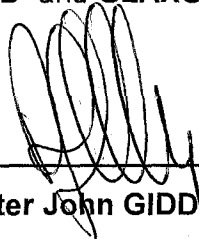
Date: _____

SIGNED by Simon E WARD:

 SEW

Date: 7 Oct 2010

SIGNED by Peter John GIDDINGS as the Attorney of GLAXOSMITHKLINE
RESEARCH AND DEVELOPMENT and GLAXOSMITHKLINE SERVICES
UNLIMITED and GLAXO GROUP LIMITED

Name: Peter John GIDDINGS
Attorney and Authorised Official

Date: 3 NOV 2010