

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Glaxo Group Limited	02/15/2013
RECEIVING PARTY DATA	
Name:	GlaxoSmithKline Intellectual Property Development Limited
Street Address:	980 Great West Road
City:	Brentford, Middlesex
State/Country:	UNITED KINGDOM
Postal Code:	TW8 9GS
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	12768775
Application Number:	13633230
CORRESPONDENCE DATA	
Fax Number:	9194837977
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	919-483-2370
Email:	usciprtp@gsk.com
Correspondent Name:	GlaxoSmithKline LLC
Address Line 1:	Five Moore Drive, PO Box 13398
Address Line 2:	Mail Stop: C2111.2F
Address Line 4:	Research Triangle PK, NORTH CAROLINA 27709
ATTORNEY DOCKET NUMBER:	PB63642A
NAME OF SUBMITTER:	Elaine Martens
Total Attachments: 5 source=PB63642A#page1.tif source=PB63642A#page2.tif source=PB63642A#page3.tif source=PB63642A#page4.tif source=PB63642A#page5.tif	

CH \$80.00 12768775

## CONFIRMATORY ASSIGNMENT

I/We, the undersigned owner

Glaxo Group Limited  
Glaxo Wellcome House  
Berkeley Avenue  
Greenford  
Middlesex UB6 0NN  
United Kingdom

have, with effect from 31 December 2012, assigned the following applications

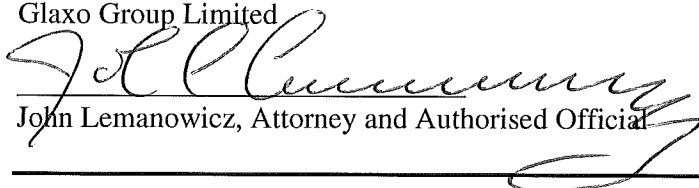
Country	Application No	Application Date
United States	12/768775	28-Apr-2010
United States	13/633230	02-Oct-2012

entitled, NOVEL COMPOUNDS with all rights and duties, and from which priority may be claimed from one or more applications, or any division, continuation and continuation-in-part of said application to:

GlaxoSmithKline Intellectual Property Development Limited  
980 Great West Road  
Brentford  
Middlesex TW8 9GS  
United Kingdom

Signed at: Research Triangle Park, NC USA  
Date: 15 February 2013

Glaxo Group Limited

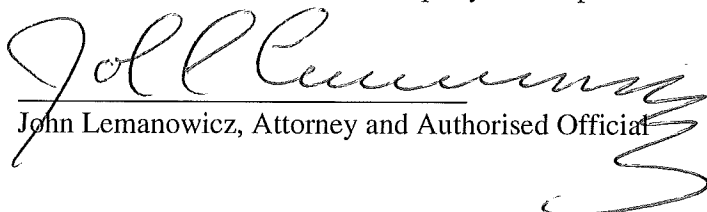
  
John Lemanowicz, Attorney and Authorised Official

## DECLARATION OF ACCEPTANCE

I/We hereby agree to the aforementioned assignment.

Signed at: Research Triangle Park, NC USA  
Date: 15 February 2013

GlaxoSmithKline Intellectual Property Development Limited

  
John Lemanowicz, Attorney and Authorised Official

## Power of Attorney

BY THIS POWER OF ATTORNEY given this 8<sup>th</sup> day of August two thousand and eleven **GLAXO GROUP LIMITED**, a company incorporated in England and Wales (Registration No. 305979) and having its registered office at Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England (hereinafter called "the Company"), **HEREBY** appoints all and any of its Directors, Secretary and Assistant Secretary for the time being, and **CARL W. BATTLE, MARCUS J. W. DALTON, RICHARD L. EASEMAN, WENDY A. FILLER, THEODORE R. FURMAN, EDWARD R. GIMMI, CHARLES M. KINZIG, JOHN L. LEMANOWICZ, LORRAINE B. LING, WILLIAM R. MAJARIAN, HELEN K. QUILLIN, ALAN SCRIVNER and RACHEL M. THORNLEY** jointly and severally to be its true and lawful agents and attorneys (hereinafter called "the Attorneys," and each an "Attorney") on behalf and in the name of the Company or otherwise to do, perform, exercise or execute or concur with any other person or persons in doing, performing or exercising in or for any country or countries or jurisdiction in any part of the world all or any of the following powers, acts, deeds and things in connection with: letters patent, including extensions thereto (including supplementary protection certificates and the like); utility models; design rights; designs and all rights analogous thereto and all applications therefore, all of which are hereinafter called "Intellectual Property Rights", that is to say:

1. In any country or countries or jurisdiction in any part of the world to make application or cause application to be made for the grant or issue or transfer to the Company or registration in its name of Intellectual Property Rights and to take all steps necessary for the same to be prosecuted, maintained, withdrawn, renewed, enforced, defended or extended.
2. As the act and deed of the Company to sign, seal, deliver and execute all or any assignments or assurances, licences to the Company of or under any Intellectual Property Rights or the right to and interest in any inventions to be the subject of Intellectual Property Rights for the purpose of fully and effectually vesting and transferring the same in and to the Company.
3. As the act and deed of the Company to sign and execute all or any assignments and acceptances of the transfer or assignment of such rights, and also any licences, sub-licences and consents from the Company of or under any Intellectual Property Rights or the right to and interest in any invention to be the subject of Intellectual Property Rights, for the purpose of fully and effectually vesting transferring or granting the same in and to any entity, whether in the United Kingdom or elsewhere, in so far as such documents can be executed without the Company's seal being affixed thereto. For purposes of this Power of Attorney, the terms "entity" means, and includes, any person, firm or company or group of persons or unincorporated body.
4. To commence, prosecute and defend any proceedings or applications whether judicial or extra judicial relating to Intellectual Property Rights and to maintain, withdraw or settle the same.
5. For and in connection with any Intellectual Property Rights to sign, seal, deliver and execute any Power of Attorney or other deed or document authorising any agent, including patent agents and attorneys, to act on behalf of the Company.
6. To act in regard to all official communications which may now or hereafter be addressed to the Attorneys relating to Intellectual Property Rights or the renewal thereof in such manner that the Attorneys may be recognised as the authorised agent(s) of the Company in all proceedings in relation thereto.
7. For all or any of the purposes contained herein as the act and deed of the Company to sign, seal, deliver, execute and do all such documents, deeds, agreements,

instruments and to do such acts as shall be requisite or may be deemed proper for or in relation to the said purposes.

It is hereby agreed that:

(a) this power of attorney shall remain in force until **30 June 2013** or (in respect of any Attorney) until his or her employment by the GlaxoSmithKline group of companies ceases, or until revocation by the Company, whichever first occurs; and

(b) in respect of any Attorney this power of attorney shall supersede and revoke with effect from the day and year first before written any power of attorney granted by the Company in favour of that Attorney covering all or some of the authorities herein contained.

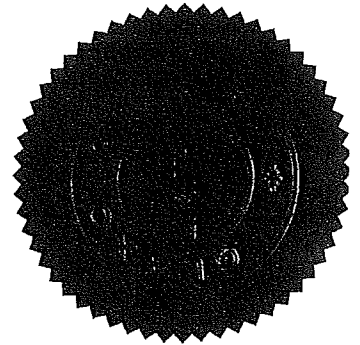
This Power is valid only to the extent that the actions carried out by the Attorney (and where applicable his or her delegates) are in accordance with relevant national and international laws and the policies and procedures of the GlaxoSmithKline Group.

**AND THE COMPANY HEREBY RATIFIES** and confirms and agrees to ratify and confirm all and whatsoever the Attorneys or any person, persons, firm or company appointed by them shall lawfully do or have done by virtue of the authorities herein contained.

**AND THE COMPANY HEREBY DECLARES** that all instruments executed under and by virtue of this Power shall be as valid and effectual as if sealed by the Common Seal of the Company.

**IN WITNESS** whereof **GLAXO GROUP LIMITED** has caused its Common Seal to be hereunto affixed the day and year first before written.

The **COMMON SEAL** of )  
**GLAXO GROUP LIMITED** )  
was hereto affixed in the presence of: )



Director

Paul Williamson  
Authorised Signatory For and on behalf of  
Edinburgh Pharmaceutical Industries Limited  
Corporate Director

Secretary / Assistant Secretary

Vaughn Walton  
Authorised Signatory  
For and on behalf of  
The Wellcome Foundation Limited  
Corporate Director

## Power of Attorney

BY THIS POWER OF ATTORNEY given this 18<sup>th</sup> day of January two thousand and thirteen, **GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED**, a company incorporated in England (Registration No. 8283222) and having its registered office at 980 Great West Road, Brentford, Middlesex TW8 9GS, England (hereinafter called "the Company"), **HEREBY** appoints all and any of its Directors, Secretary and Assistant Secretary for the time being, and **CARL W. BATTLE, MARCUS J. W. DALTON, RICHARD L. EASEMAN, WENDY A. FILLER, THEODORE R. FURMAN, EDWARD R. GIMMI, CHARLES M. KINZIG, JOHN L. LEMANOWICZ, LORRAINE B. LING, WILLIAM R. MAJARIAN, HELEN K. QUILLIN, ALAN SCRIVNER and RACHEL M. THORNLEY** jointly and severally to be its true and lawful agents and attorneys (hereinafter called "the Attorneys," and each an "Attorney") on behalf and in the name of the Company or otherwise to do, perform, exercise or execute or concur with any other person or persons in doing, performing or exercising in or for any country or countries or jurisdiction in any part of the world all or any of the following powers, acts, deeds and things in connection with: letters patent, including extensions thereto (including supplementary protection certificates and the like); utility models; design rights; designs and all rights analogous thereto and all applications therefor, all of which are hereinafter called "Intellectual Property Rights", that is to say:

1. In any country or countries or jurisdiction in any part of the world to make application or cause application to be made for the grant or issue or transfer to the Company or registration in its name of Intellectual Property Rights and to take all steps necessary for the same to be prosecuted, maintained, withdrawn, renewed, enforced, defended or extended.
2. As the act and deed of the Company to sign, seal, deliver and execute all or any assignments or assurances, licences to the Company of or under any Intellectual Property Rights or the right to and interest in any inventions to be the subject of Intellectual Property Rights for the purpose of fully and effectually vesting and transferring the same in and to the Company.
3. As the act and deed of the Company to sign and execute all or any assignments and acceptances of the transfer or assignment of such rights, and also any licences, sub-licences and consents from the Company of or under any Intellectual Property Rights or the right to and interest in any invention to be the subject of Intellectual Property Rights, for the purpose of fully and effectually vesting transferring or granting the same in and to any entity, whether in the United Kingdom or elsewhere, in so far as such documents can be executed without the Company's seal being affixed thereto. For purposes of this Power of Attorney, the terms "entity" means, and includes, any person, firm or company or group of persons or unincorporated body.
4. To commence, prosecute and defend any proceedings or applications whether judicial or extra judicial relating to Intellectual Property Rights and to maintain, withdraw or settle the same.
5. For and in connection with any Intellectual Property Rights to sign, seal, deliver and execute any Power of Attorney or other deed or document authorising any agent, including patent agents and attorneys, to act on behalf of the Company.
6. To act in regard to all official communications which may now or hereafter be addressed to the Attorneys relating to Intellectual Property Rights or the renewal thereof in such manner that the Attorneys may be recognised as the authorised agent(s) of the Company in all proceedings in relation thereto.
7. For all or any of the purposes contained herein as the act and deed of the Company to sign, seal, deliver, execute and do all such documents, deeds, agreements,

instruments and to do such acts as shall be requisite or may be deemed proper for or in relation to the said purposes.

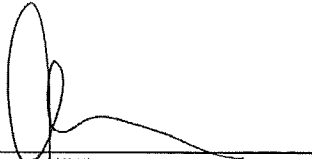
It is hereby agreed that:

(a) this power of attorney shall remain in force until **30 June 2015** or (in respect of any Attorney) until his or her employment by the GlaxoSmithKline group of companies ceases, or until revocation by the Company, whichever first occurs; and

(b) in respect of any Attorney this power of attorney shall supersede and revoke with effect from the day and year first before written any power of attorney granted by the Company in favour of that Attorney covering all or some of the authorities herein contained.

This Power is valid only to the extent that the actions carried out by the Attorney (and where applicable his or her delegates) are in accordance with relevant national and international laws and the policies and procedures of the GlaxoSmithKline Group.

**AND THE COMPANY HEREBY RATIFIES** and confirms and agrees to ratify and confirm all and whatsoever the Attorneys or any person, persons, firm or company appointed by them shall lawfully do or have done by virtue of the authorities herein contained.



Paul Williamson  
Authorised Signatory  
For and on behalf of Edinburgh Pharmaceutical Industries Limited  
Corporate Director



Paul Kelly-Bista  
Authorised Signatory  
For and on behalf of  
Glaxo Group Limited  
Corporate Director