

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4361123

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RIKI PETER ALEXANDER	04/05/2017
JULIEN ALISTAIR BROWN	11/29/2016
VICTORIA ELIZABETH JACKSON	11/02/2016
BORIS KROEPLIEN	11/11/2016
ZHOANING ZHU	11/01/2016
RECEIVING PARTY DATA	
Name:	CELLTECH R&D LIMITED
Street Address:	208 BATH ROAD
City:	SLOUGH, BERKSHIRE
State/Country:	UNITED KINGDOM
Postal Code:	SL1 3WE
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15101798
CORRESPONDENCE DATA	
Fax Number:	(312)913-0002
<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:	312-913-0001
Email:	neth@mbhb.com
Correspondent Name:	MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP
Address Line 1:	300 SOUTH WACKER DRIVE
Address Line 4:	CHICAGO, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	16-575-WO-US
NAME OF SUBMITTER:	MICHAEL S. GREENFIELD
SIGNATURE:	/Michael S. Greenfield/
DATE SIGNED:	04/10/2017
Total Attachments: 12	
source=16-575-WO-US - Signed Assignment - Alexander#page1.tif	

source=16-575-WO-US - Signed Assignment - Alexander#page2.tif
source=16-575-WO-US - Signed Assignment - Brown#page1.tif
source=16-575-WO-US - Signed Assignment - Brown#page2.tif
source=16-575-WO-US - Signed Assignment - Jackson#page1.tif
source=16-575-WO-US - Signed Assignment - Jackson#page2.tif
source=16-575-WO-US - Signed Assignment - Jackson#page3.tif
source=16-575-WO-US - Signed US Assignment - BK#page1.tif
source=16-575-WO-US - Signed US Assignment - BK#page2.tif
source=16-575-WO-US - Signed US Assignment - BK#page3.tif
source=16-575-WO-US - Signed US Assignment - ZHU#page1.tif
source=16-575-WO-US - Signed US Assignment - ZHU#page2.tif

CONFIRMATORY ASSIGNMENT

The undersigned hereby acknowledges and confirms that by virtue of my employment by **Celltech R&D Limited** all of my rights in the invention or inventions disclosed in the following patent applications,

U.S. Application Serial No. 15/102,003 filed June 6, 2016
U.S. Application Serial No. 15/101,798 filed June 3, 2016
U.S. Application Serial No. 15/101,767 filed June 3, 2016
U.S. Application Serial No. 15/101,283 filed June 2, 2016
U.S. Application Serial No. 15/100,825 filed June 1, 2016
U.S. Application Serial No. 15/038,986 filed May 24, 2016
International Application No. PCT/EP2014/076880 filed December 8, 2014
International Application No. PCT/EP2014/076886 filed December 8, 2014
International Application No. PCT/EP2014/076884 filed December 8, 2014
International Application No. PCT/EP2014/076877 filed December 8, 2014
International Application No. PCT/EP2014/076845 filed December 8, 2014
International Application No. PCT/EP2014/076842 filed December 8, 2014
Great Britain Application Serial No. 1321728.6 filed December 9, 2013
Great Britain Application Serial No. 1321730.2 filed December 9, 2013
Great Britain Application Serial No. 1321729.4 filed December 9, 2013
Great Britain Application Serial No. 1409244.9 filed May 23, 2014
Great Britain Application Serial No. 1321752.6 filed December 9, 2013
Great Britain Application Serial No. 1321738.5 filed December 9, 2013
Great Britain Application Serial No. 1321731.0 filed December 9, 2013

and in said applications and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications and applications claiming priority thereto, and in any reissue or extension of such patents, including the priority right provided by the International Convention, were transferred from me to Celltech R&D. Limited and its successors and assigns no later than December 9, 2013, and to the extent that any such rights were not transferred, in consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I hereby transfer all such rights to Celltech R&D. Limited *nunc pro tunc* effective as of December 9, 2013 or, if *nunc pro tunc* assignment is not recognized under controlling law or practice, as of the date of my execution of this assignment.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.


The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

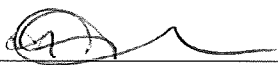
The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 5 day of APRIL, 2017.


Riki Peter Alexander

 CHARLES CRICHTON
WITNESS

 LUCY POLMAN.
WITNESS

CONFIRMATORY ASSIGNMENT

The undersigned hereby acknowledges and confirms that by virtue of my employment by Celltech R&D Limited all of my rights in the invention or inventions disclosed in the following patent applications,

U.S. Application Serial No. 15/101,798 filed June 3, 2016
U.S. Application Serial No. 15/101,767 filed June 3, 2016
U.S. Application Serial No. 15/039,092 filed May 25, 2016
U.S. Application Serial No. 15/038,986 filed May 24, 2016
U.S. Application Serial No. 15/038,818 filed May 24, 2016
U.S. Application Serial No. 15/038,733 filed May 23, 2016
U.S Application Serial no. 15/100,690 filed June 1, 2016
International Application No. PCT/EP2014/076886 filed December 8, 2014
International Application No. PCT/EP2014/076884 filed December 8, 2014
International Application No. PCT/EP2014/076853 filed December 8, 2014
International Application No. PCT/EP2014/076842 filed December 8, 2014
International Application No. PCT/EP2014/076841 filed December 8, 2014
International Application No. PCT/EP2014/076838 filed December 8, 2014
International Application No. PCT/EP2014/076836 filed December 8, 2014
Great Britain Application Serial No. 1321730.2 filed December 9, 2013
Great Britain Application Serial No. 1321729.4 filed December 9, 2013
Great Britain Application Serial No. 1321746.8 filed December 9, 2013
Great Britain Application Serial No. 1321731.0 filed December 9, 2013
Great Britain Application Serial No. 1321732.8 filed December 9, 2013
Great Britain Application Serial No. 1321734.4 filed December 9, 2013
Great Britain Application Serial No. 1321736.9 filed December 9, 2013

and in said applications and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications and applications claiming priority thereto, and in any reissue or extension of such patents, including the priority right provided by the International Convention, were transferred from me to Celltech R&D. Limited and its successors and assigns no later than December 9, 2013, and to the extent that any such rights were not transferred, in consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I hereby transfer all such rights to Celltech R&D. Limited *nunc pro tunc* effective as of December 9, 2013 or, if *nunc pro tunc* assignment is not recognized under controlling law or practice, as of the date of my execution of this assignment.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and

further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 29 day of November, 2016.

Julien B.
Julien Alistair Brown

S. Humphreys
WITNESS SARAH HUMPHREYS

Paula Jukes
WITNESS PAULA JUKES

CONFIRMATORY ASSIGNMENT

The undersigned hereby acknowledges and confirms that by virtue of my employment by Celltech R&D Limited all of my rights in the invention or inventions disclosed in the following patent applications,

U.S. Application Serial No. 15/102,003 filed June 6, 2016
U.S. Application Serial No. 15/101,798 filed June 3, 2016
U.S. Application Serial No. 15/101,767 filed June 3, 2016
U.S. Application Serial No. 15/101,283 filed June 2, 2016
U.S. Application Serial No. 15/101,203 filed June 2, 2016
U.S. Application Serial No. 15/039,194 filed May 25, 2016
U.S. Application Serial No. 15/039,199 filed May 25, 2016
U.S. Application Serial No. 15/038,287 filed May 20, 2016
U.S. Application Serial No. 15/101,089 filed June 2, 2016
U.S. Application Serial No. 15/100,915 filed June 1, 2016
U.S. Application Serial No. 15/100,697 filed June 1, 2016
U.S. Application Serial No. 15/038,986 filed May 24, 2016
U.S. Application Serial No. 15/038,818 filed May 24, 2016
U.S. Application Serial No. 15/038,766 filed May 24, 2016
U.S. Application Serial No. 15/038,733 filed May 23, 2016
U.S. Application Serial No. 15/038,555 filed May 23, 2016
U.S. Application Serial No. 15/100,690 filed June 1, 2016
U.S. Application Serial No. 15/038,239 filed May 20, 2016
U.S. Application Serial No. 15/101,044 filed June 2, 2016

International Application No. PCT/EP2014/076880 filed December 8, 2014
International Application No. PCT/EP2014/076886 filed December 8, 2014
International Application No. PCT/EP2014/076884 filed December 8, 2014
International Application No. PCT/EP2014/076877 filed December 8, 2014
International Application No. PCT/EP2014/076875 filed December 8, 2014
International Application No. PCT/EP2014/076872 filed December 8, 2014
International Application No. PCT/EP2014/076869 filed December 8, 2014
International Application No. PCT/EP2014/076854 filed December 8, 2014
International Application No. PCT/EP2014/076848 filed December 8, 2014
International Application No. PCT/EP2014/076846 filed December 8, 2014
International Application No. PCT/EP2014/076843 filed December 8, 2014
International Application No. PCT/EP2014/076842 filed December 8, 2014
International Application No. PCT/EP2014/076841 filed December 8, 2014
International Application No. PCT/EP2014/076840 filed December 8, 2014
International Application No. PCT/EP2014/076838 filed December 8, 2014
International Application No. PCT/EP2014/076837 filed December 8, 2014
International Application No. PCT/EP2014/076836 filed December 8, 2014
International Application No. PCT/EP2014/076834 filed December 8, 2014
International Application No. PCT/EP2014/076832 filed December 8, 2014

Great Britain Application Serial No. 1321728.6 filed December 9, 2013
Great Britain Application Serial No. 1321730.2 filed December 9, 2013
Great Britain Application Serial No. 1321729.4 filed December 9, 2013
Great Britain Application Serial No. 1409244.9 filed May 23, 2014

Great Britain Application Serial No.1321752.6 filed December 9, 2013
Great Britain Application Serial No. 1321749.2 filed December 9, 2013
Great Britain Application Serial No. 1321748.4 filed December 9, 2013
Great Britain Application Serial No. 1321747.6 filed December 9, 2013
Great Britain Application Serial No. 1409241.5 filed May 23, 2014
Great Britain Application Serial No. 1321744.3 filed December 9, 2013
Great Britain Application Serial No. 1321741.9 filed December 9, 2013
Great Britain Application Serial No. 1321739.3 filed December 9, 2013
Great Britain Application Serial No. 1321737.7 filed December 9, 2013
Great Britain Application Serial No. 1321731.0 filed December 9, 2013
Great Britain Application Serial No. 1321732.8 filed December 9, 2013
Great Britain Application Serial No. 1321733.6 filed December 9, 2013
Great Britain Application Serial No. 1321734.4 filed December 9, 2013
Great Britain Application Serial No. 1321735.1 filed December 9, 2013
Great Britain Application Serial No. 1321736.9 filed December 9, 2013
Great Britain Application Serial No. 1321743.5 filed December 9, 2013
Great Britain Application Serial No. 1321742.7 filed December 9, 2013

and in said applications and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications and applications claiming priority thereto, and in any reissue or extension of such patents, including the priority right provided by the International Convention, were transferred from me to Celltech R&D. Limited and its successors and assigns no later than December 9, 2013, and to the extent that any such rights were not transferred, in consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I hereby transfer all such rights to Celltech R&D. Limited *nunc pro tunc* effective as of December 9, 2013 or, if *nunc pro tunc* assignment is not recognized under controlling law or practice, as of the date of my execution of this assignment.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for

said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 2 day of November, 2016.

Victoria Elizabeth Jackson
Victoria Elizabeth Jackson

RTBUTLIN
WITNESS

A. J. BUNT
WITNESS

CONFIRMATORY ASSIGNMENT

The undersigned hereby acknowledges and confirms that by virtue of my employment by Celltech R&D Limited all of my rights in the invention or inventions disclosed in the following patent applications,

U.S. Application Serial No. 15/102,003 filed June 6, 2016
U.S. Application Serial No. 15/101,798 filed June 3, 2016
U.S. Application Serial No. 15/101,767 filed June 3, 2016
U.S. Application Serial No. 15/101,283 filed June 2, 2016
U.S. Application Serial No. 15/101,203 filed June 2, 2016
U.S. Application Serial No. 15/039,194 filed May 25, 2016
U.S. Application Serial No. 15/039,092 filed May 25, 2016
U.S. Application Serial No. 15/038,287 filed May 20, 2016
U.S. Application Serial No. 15/101,089 filed June 2, 2016
U.S. Application Serial No. 15/101,073 filed June 2, 2016
U.S. Application Serial No. 15/100,825 filed June 1, 2016
U.S. Application Serial No. 15/100,697 filed June 1, 2016
U.S. Application Serial No. 15/038,766 filed May 24, 2016
U.S. Application Serial No. 15/038733 filed May 23, 2016
U.S. Application Serial No. 15/038,555 filed May 23, 2016
U.S. Application Serial No. 15/100,690 filed June 1, 2016
U.S. Application Serial No. 15/038,239 filed May 20, 2016

International Application No. PCT/EP2014/076880 filed December 8, 2014
International Application No. PCT/EP2014/076886 filed December 8, 2014
International Application No. PCT/EP2014/076884 filed December 8, 2014
International Application No. PCT/EP2014/076877 filed December 8, 2014
International Application No. PCT/EP2014/076875 filed December 8, 2014
International Application No. PCT/EP2014/076872 filed December 8, 2014
International Application No. PCT/EP2014/076853 filed December 8, 2014
International Application No. PCT/EP2014/076854 filed December 8, 2014
International Application No. PCT/EP2014/076848 filed December 8, 2014
International Application No. PCT/EP2014/076847 filed December 8, 2014
International Application No. PCT/EP2014/076845 filed December 8, 2014
International Application No. PCT/EP2014/076843 filed December 8, 2014
International Application No. PCT/EP2014/076840 filed December 8, 2014
International Application No. PCT/EP2014/076838 filed December 8, 2014
International Application No. PCT/EP2014/076837 filed December 8, 2014
International Application No. PCT/EP2014/076836 filed December 8, 2014
International Application No. PCT/EP2014/076834 filed December 8, 2014

Great Britain Application Serial No. 1321728.6 filed December 9, 2013
Great Britain Application Serial No. 1321730.2 filed December 9, 2013
Great Britain Application Serial No. 1321729.4 filed December 9, 2013

Great Britain Application Serial No. 1409244.9 filed May 23, 2014
Great Britain Application Serial No. 1321752.6 filed December 9, 2013
Great Britain Application Serial No. 1321749.2 filed December 9, 2013
Great Britain Application Serial No. 1321748.4 filed December 9, 2013
Great Britain Application Serial No. 1321746.8 filed December 9, 2013

Great Britain Application Serial No. 1321744.3 filed December 9, 2013
Great Britain Application Serial No. 1321741.9 filed December 9, 2013
Great Britain Application Serial No. 1321740.1 filed December 9, 2013
Great Britain Application Serial No. 1321738.5 filed December 9, 2013
Great Britain Application Serial No. 1321737.7 filed December 9, 2013
Great Britain Application Serial No. 1321733.6 filed December 9, 2013
Great Britain Application Serial No. 1321734.4 filed December 9, 2013
Great Britain Application Serial No. 1321735.1 filed December 9, 2013
Great Britain Application Serial No. 1321736.9 filed December 9, 2013
Great Britain Application Serial No. 1321743.5 filed December 9, 2013

and in said applications and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications and applications claiming priority thereto, and in any reissue or extension of such patents, including the priority right provided by the International Convention, were transferred from me to Celltech R&D. Limited and its successors and assigns no later than December 9, 2013, and to the extent that any such rights were not transferred, in consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I hereby transfer all such rights to Celltech R&D. Limited *nunc pro tunc* effective as of December 9, 2013 or, if *nunc pro tunc* assignment is not recognized under controlling law or practice, as of the date of my execution of this assignment.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the

assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 11 day of November, 2016.

Boris Kroeplien
Boris Kroeplien

Walter Harders
WITNESS Walter Harders

Dirk Harders
WITNESS Dirk Harders

CONFIRMATORY ASSIGNMENT

The undersigned hereby acknowledges and confirms that by virtue of my employment by **Celltech R&D Limited** all of my rights in the invention or inventions disclosed in the following patent applications,

U.S. Application Serial No. 15/102,003 filed June 6, 2016
U.S. Application Serial No. 15/101,798 filed June 3, 2016
U.S. Application Serial No. 15/101,767 filed June 3, 2016
U.S. Application Serial No. 15/101,283 filed June 2, 2016
U.S. Application Serial No. 15/039,092 filed May 25, 2016
International Application No. PCT/EP2014/076880 filed December 8, 2014
International Application No. PCT/EP2014/076886 filed December 8, 2014
International Application No. PCT/EP2014/076884 filed December 8, 2014
International Application No. PCT/EP2014/076877 filed December 8, 2014
International Application No. PCT/EP2014/076853 filed December 8, 2014
Great Britain Application Serial No. 1321728.6 filed December 9, 2013
Great Britain Application Serial No. 1321730.2 filed December 9, 2013
Great Britain Application Serial No. 1321729.4 filed December 9, 2013
Great Britain Application Serial No. 1409244.9 filed May 23, 2014
Great Britain Application Serial No. 1321752.6 filed December 9, 2013
Great Britain Application Serial No. 1321746.8 filed December 9, 2013

and in said applications and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications and applications claiming priority thereto, and in any reissue or extension of such patents, including the priority right provided by the International Convention, were transferred from me to Celltech R&D. Limited and its successors and assigns no later than December 9, 2013, and to the extent that any such rights were not transferred, in consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I hereby transfer all such rights to Celltech R&D. Limited *nunc pro tunc* effective as of December 9, 2013 or, if *nunc pro tunc* assignment is not recognized under controlling law or practice, as of the date of my execution of this assignment.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

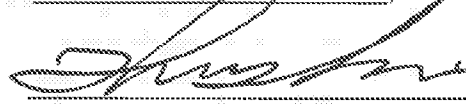
The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

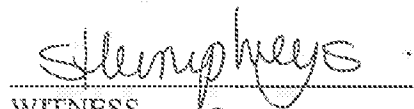
The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.


For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional,

continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 1st day of November, 2016.


Zhaoning Zhu


WITNESS SARAH HUMPHREYS


WITNESS PAULA TUCKER