505890132 01/30/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5936833

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IMKE ELISABETH MULDER	02/02/2017
AMY BETH HOLT	02/02/2017
DOMENICO PANZICA	02/02/2017
SEANIN MARIE MCCLUSKEY	02/10/2017

RECEIVING PARTY DATA

Name:	4D PHARMA RESEARCH LIMITED
Street Address:	LIFE SCIENCES INNOVATION BUILDING
Internal Address:	CORNHILL ROAD
City:	ABERDEEN
State/Country:	UNITED KINGDOM
Postal Code:	AB25 2ZS

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16703980

CORRESPONDENCE DATA

Fax Number: (650)493-6811

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.

Phone: 6504939300 Email: rrsmith@wsgr.com

Correspondent Name: WILSON SONSINI GOODRICH & ROSATI

650 PAGE MILL ROAD Address Line 1:

Address Line 4: PALO ALTO, CALIFORNIA 94304

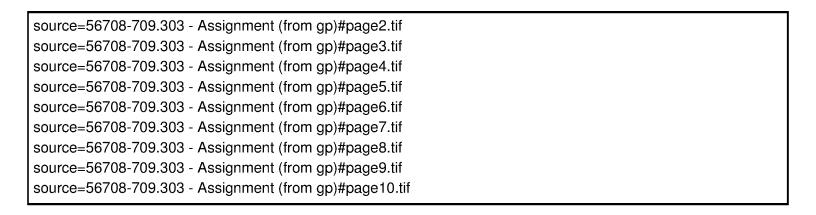
ATTORNEY DOCKET NUMBER:	56708-709.303
NAME OF SUBMITTER:	DAVID MATA
SIGNATURE:	/David Mata/
DATE SIGNED:	01/30/2020

Total Attachments: 10

source=56708-709.303 - Assignment (from gp)#page1.tif

PATENT REEL: 051666 FRAME: 0134

505890132



PATENT REEL: 051666 FRAME: 0135

DA TIDNITI A CONONDATINITI		Dodat Number 40455 700 201		
PATENT ASSIGNMENT		Docket Number 49455-709.201		
WHEREAS, the undersigned:				
Imke Elisabeth MULDER Aberdeen, United Kingdom Aberdeen, United Kingdom	 Domenico PANZICA Aberdeen, United Kingd 	Seanin Marie MCCLUSKEY Aberdeen, United Kingdom		
(hereinafter "Inventor(s))," have invented certain new and useful improvement	ents in			
COMPOSITIONS COMPR	ISING BACTERIAL STRAI	INS		
for which a United States patent application is executed on even date herewith; for which application serial number 15/357,850 was filed on November 21, 2016 in the United States Patent and Trademark Office; for which application serial number was filed on in the U.S. Receiving Office of the Patent Cooperation Treaty; for which application serial number was filed on in the Patent Office; and/or for which an application was filed upon which a United States Patent issued on as U.S. Patent No. (hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).				
WHEREAS, 4D Pharma Research Limited, a company of Scotland, having a place of business at Life Sciences Innovation Building, Comhill Road, Aberdeen AB25 2ZS United Kingdon, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").				
NOW, THEREFORE, in consideration of good and valuable consaid Assignee:	ideration acknowledged by sai	id Inventor(s) to have been received in full from		
1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).				
2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.				
3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.				
4. Said Inventor(s) hereby warrant, represent and covenar contract, or understanding in conflict herewith.	t that said Inventor(s) have no	t entered and will not enter into any assignment,		
5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.				
6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.				
IN WITNESS WHEREOF, said Inventor(s) have executed and de	livered this instrument to said	Assignee as of the dates written below:		
Dute	Date: 2/117	A Alexander		
Date: Imke Elisabeth MULDER	Date. CT OTT	Amy Beth HOLT		
Date:	Date:	Seanin Marie MCCLUSKEY		
Domenico PANZICA	5	Canini ividite ivicobusae i		
RECEIVED AND AGREED TO BY ASSIGNEE: 4D Pharma Research Lin	nited			

PATE	NT ASSIGNMENT	Docket Number 49455-709.201
	Alex Stevenson Director, Chief Scientific Officer	

PATENT ASSIGNMENT		Docket Number 49455-709.201	
WHEREAS, the undersigned:			
I. Imke Elisabeth MULDER 2. Amy Beth HOLT 3. Domenico PANZICA 4. Seanin Marie MCCLUSKEY Aberdeen, United Kingdom Aberdeen, United Kingdom Aberdeen, United Kingdom			
(hereinafter "Inventor(s))," have invented certain new and useful improvem	ents in		
COMPOSITIONS COMPR	ISING BACTERIAL STRA	INS	
for which a United States patent application is executed on even date herewith; for which application serial number 15/357.850 was filed on November 21, 2016 in the United States Patent and Trademark Office; for which application serial number was filed on in the U.S. Receiving Office of the Patent Cooperation Treaty; for which application serial number was filed on in the patent Office; and/or for which an application was filed upon which a United States Patent issued on as U.S. Patent No. (hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).			
WHEREAS, 4D Pharma Research Limited, a company of Scotland, having a place of business at Life Sciences Innovation Building, Cornhill Road, Aberdeen AB25 2ZS United Kingdon, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").			
NOW, THEREFORE, in consideration of good and valuable consaid Assignee:	sideration acknowledged by sa	aid Inventor(s) to have been received in full from	
1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).			
2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting any applications, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.			
3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.			
4. Said Inventor(s) hereby warrant, represent and covenar contract, or understanding in conflict herewith.	(, , , , , , , , , , , , , , , , , , ,		
5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.			
6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.			
IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:			
Date:	Date:		
Imke Elisabeth MULDER		Amy Beth HOLT	
Date: 2/2/17 Domenico PANZICA	Date: S	Geanin Marie MCCLUSKEY	
RECEIVED AND AGREED TO BY ASSIGNEE: 4D Pharma Research Lin	nited		

PATE	NT ASSIGNMENT	Docket Number 49455-709.201
	Alex Stevenson Director, Chief Scientific Officer	

PATENT ASSIGNMENT		Docket Number 49455-709.201	
WHEREAS, the undersigned:			
 Imke Elisabeth MULDER Aberdeen, United Kingdom Amy Beth HOLT Aberdeen, United Kingdom 	Domenico PANZICA Aberdeen, United King	4. Seanin Marie MCCLUSKEY Aberdeen, United Kingdom	
(hereinafter "Inventor(s))," have invented certain new and useful improvement	ents in		
COMPOSITIONS COMPR	ISING BACTERIAL STRA	AINS	
for which a United States patent application is executed on even date herewith; for which application serial number 15/357,850 was filed on November 21, 2016 in the United States Patent and Trademark Office; for which application serial number was filed on finithe U.S. Receiving Office of the Patent Cooperation Treaty; for which application serial number patent office; for which an application was filed upon which a United States Patent issued on substitution, as U.S. Patent No. [hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).			
WHEREAS, 4D Pharma Research Limited, a company of Scotland, having a place of business at Life Sciences Innovation Building, Comhill Road, Aberdeen AB25 2ZS United Kingdon, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").			
NOW, THEREFORE, in consideration of good and valuable consaid Assignee:	sideration acknowledged by sa	aid Inventor(s) to have been received in full from	
1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).			
2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.			
3. The terms and covenants of this assignment shall inure representatives, and shall be binding upon said Inventor(s), their respective by			
4. Said Inventor(s) hereby warrant, represent and covenant contract, or understanding in conflict herewith.	nt that said Inventor(s) have no	ot entered and will not enter into any assignment,	
5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.			
6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of aw principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.			
IN WITNESS WHEREOF, said Inventor(s) have executed and de	livered this instrument to said	Assignee as of the dates written below:	
Pote 02-02-12 Phildy			
Date: <u>02-02-17</u> <u>JMLAM</u> Imke Elisabeth MULDER	Date:	Amy Beth HOLT	
Date: Domenico PANZICA	Date:	Seanin Marie MCCLUSKEY	
Domenico PANZICA	•	Seative Michael I	
RECEIVED AND AGREED TO BY ASSIGNEE: 4D Pharma Research Lin	l nited		

PATE	NT ASSIGNMENT	Docket Number 49455-709.201
	Alex Stevenson Director, Chief Scientific Officer	

PATENT ASSIGNMENT		Docket Number 49455-709.201	
WHEREAS, the undersigned:		4. Seanin Marie MCCLUSKEY	
Imke Elisabeth MULDER Aberdeen, United Kingdom Aberdeen, United Kingdom	 Domenico PANZICA Aberdeen, United Kinga 		
(hereinafter "Inventor(s))," have invented certain new and useful improvement	nts in		
COMPOSITIONS COMPRIS		INS	
for which a United States patent application is executed on even date herewith; for which application serial number 15/357,850 was filed on November 21, 2016 in the United States Patent and Trademark Office; for which application serial number was filed on in the U.S. Receiving Office of the Patent Cooperation Treaty; for which application serial number was filed on patent Office; and/or for which an application was filed upon which a United States Patent issued on such as U.S. Patent No. (hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).			
WHEREAS, 4D Pharma Research Limited, a company of Scotland, having a place of business at Life Sciences Innovation Building, Cornhill Road. Aberdeen AB25 2ZS United Kingdom, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").			
NOW, THEREFORE, in consideration of good and valuable consistaid Assignee:	deration acknowledged by sa	aid Inventor(s) to have been received in full from	
1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).			
2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions, and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and count actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.			
3. The terms and covenants of this assignment shall inure representatives, and shall be binding upon said Inventor(s), their respective h	3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.		
4. Said Inventor(s) hereby warrant, represent and covenan contract, or understanding in conflict herewith.	t that said Inventor(s) have n	of entered and will not enter into any assignment,	
5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.			
6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.			
IN WITNESS WHEREOF, said Inventor(s) have executed and de	livered this instrument to sai	d Assignee as of the dates written below:	
Data	Date:		
Date: Imke Elisabeth MULDER	Date.	Amy Beth HOLT	
Date: (2 · 2 - 17) Domenico PANZICA	Date:	Seanin Marie MCCLUSKEY	
RECEIVED AND AGREED TO BY ASSIGNEE: 4D Pharma Research Lin	nited		

PATENT ASSIGNMENT		Docket Number 49455-709.201
Date: Signature: Name: Title:	Alex Stevenson Director, Chief Scientific Officer	

PATENT ASSIGNMENT	Docket Number 49455-709.201		
WHEREAS, the undersigned:			
Inke Elisabeth MULDER Aberdeen, United Kingdom Aberdeen, United Kingdom	Domenico PANZICA Aberdeen, United Kingdom Seanin Marie MCCLUSKEY Aberdeen, United Kingdom		
(hereinafter "Inventor(s))," have invented certain new and useful improvement	ents in		
COMPOSITIONS COMPRISING BACTERIAL STRAINS			
☐ for which a United States patent application is executed on even date herewith; ☐ for which application serial number 15/357.850 was filed on November 21, 2016 in the United States Patent and Trademark Office; ☐ for which application serial number was filed on in the U.S. Receiving Office of the Patent Cooperation Treaty; ☐ for which application serial number was filed on in the Patent Office; and/or ☐ for which an application was filed upon which a United States Patent issued on, as U.S. Patent No (hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).			
WHEREAS, 4D Pharma Research Limited, a company of Scotland, having a place of business at Life Sciences Innovation Building, Cornhill Road. Aberdeen AB25 2ZS United Kingdon, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").			
NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:			
1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s); (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing; and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).			
2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.			
3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.			
4. Said Inventor(s) hereby warrant, represent and covenant that said Inventor(s) have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.			
5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.			
6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.			
IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignce as of the dates written below:			
Dote: Date:			
Date: Imke Elisabeth MULDER	Date: Amy Beth HOLT		
Date: Domenico PANZICA	Date: Seanin Marie MCCLUSKEY		
RECEIVED AND AGREED TO BY ASSIGNEE: 4D Pharma Research Limited			

Page 1 of 2 (C&R ref: P067592US)

PATENT ASSIGNMENT

Docket Number 49455-709.201

Date: 25/5/17 Signature: Alex Stevenson
Name: Alex Stevenson
Title: Director, Chief Scientific Officer

Page 2 of 2 (C&R ref: P067592US)

PATENT REEL: 053660 FRAME: 0266