

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5541095

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES BUDGE	05/16/2017
CHRISTOPHER MARK SMALES	05/16/2017
TANYA JEANE KNIGHT	05/16/2017
ROBERT YOUNG	05/11/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LONZA LTD
<b>Street Address:</b>	LONZASTRASSE
<b>City:</b>	VISP
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	3930
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15585570
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)395-7070
<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>	
<b>Phone:</b>	(617) 395-7041
<b>Email:</b>	nsspatents@LALaw.com
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<b>Address Line 1:</b>	RIVERFRONT OFFICE PARK
<b>Address Line 2:</b>	ONE MAIN STREET, SUITE 1100
<b>Address Line 4:</b>	CAMBRIDGE, MASSACHUSETTS 02142
<b>ATTORNEY DOCKET NUMBER:</b>	L2082-700310
<b>NAME OF SUBMITTER:</b>	STEVEN NATHANIEL SCHAFHEIMER
<b>SIGNATURE:</b>	/Steven N. Schafheimer/
<b>DATE SIGNED:</b>	05/24/2019
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 049282 FRAME: 0724**

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, We, the undersigned Robert Young of Research & Technology, Lonza Biologics Plc, 228 Bath Road; Slough, Berkshire, SL1, United Kingdom; Christopher Mark Smales of 37 Ethelbert Rd, Canterbury, CT1 3NF, United Kingdom; James Budge of The University of Kent, The Registry, Canterbury, CT2 7NZ, United Kingdom; and Tanya Jeane Knight of 32 Kings Road, Herne Bay, Kent, CT6 5DA, United Kingdom, respectively, hereby:

Sell, assign and transfer to LONZA LTD, a Switzerland corporation having a place of business at Lonzastrasse, 3930 Visp, Switzerland, its successors, assigns and legal representatives, all hereinafter referred to as said Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in an application for Letters Patent filed in the United States Patent and Trademark Office on:

May 3, 2017

ENTER FILING DATE ABOVE

under Application Serial No. 15/585,570 and

Entitled **MODULATION OF LIPID METABOLISM FOR PROTEIN PRODUCTION**,

and in and to said application and all continuing, divisional, continuation-in-part, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said any and all inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said any and all inventions including the right to apply for patent rights in each foreign country and all rights to priority; and further including any right to sue for past infringement;

Appoint, authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting in the spaces provided above the filing date and serial number of said application when known;

Agree that said Assignee may apply for and receive Letters Patent for said any and all inventions in its own name; and when requested, without charge to but at the expense of said Assignee, We agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on said any and all inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to relating to said any and all inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider

desirable for aiding in securing and maintaining proper patent protection for said any and all inventions and for vesting title to said any and all inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

Said Assignee does hereby acknowledge and accept the above sale, assignment and transfer of all the rights, title and interest enumerated above, including but not limited to the right to priority and the right to sue for past infringement.

By: **LONZA LTD**

Date

17 May 2017

Signature

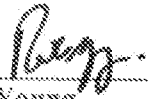
Thomas Keppler  
Senior IP Business Partner  
Chemicals

Printed Name of Signor

Fabian Meier  
Mandatory

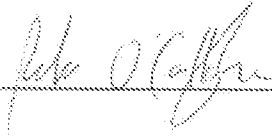
Title/Authority of Signor

11 MAY 17  
Date

  
Robert Young

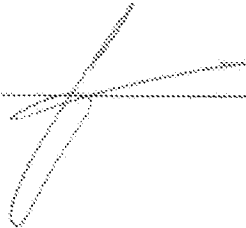
Witness:

11 MAY 17  
Date




Witness:

11 MAY 17  
Date



16/5/17  
Date

  
Christopher Mark Smales

Witness:

16/5/17  
Date

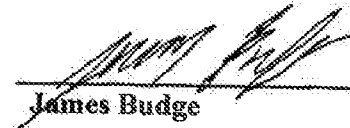


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17 May. 2017  
Date

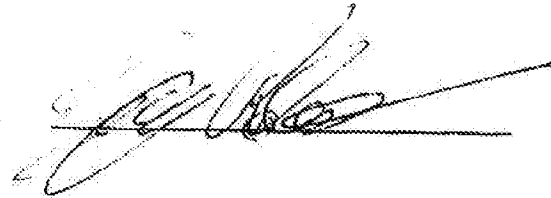


16/5/17  
Date

  
James Budge

Witness:

16/5/17  
Date



Witness:

17 May 2017  
Date

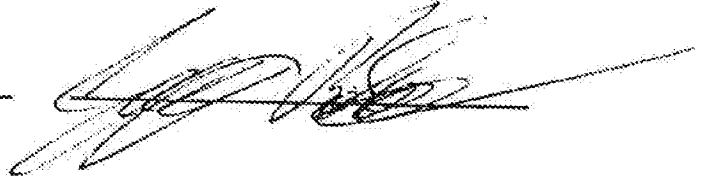


16/5/17  
Date

  
Tanya Jean Knight

Witness:

16/5/17  
Date



Witness:

17. May 2017  
Date

