## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7480799

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ROBERT YOUNG	09/13/2020
CHRISTOPHER MARK SMALES	09/16/2020
COLIN MARK JAQUES	12/16/2020
ANDREW J. RACHER	09/11/2020
GURDEEP SINGH	09/11/2020
JAMES BUDGE	09/16/2020
JOANNE ROBOOL	09/16/2020

#### **RECEIVING PARTY DATA**

Name:	LONZA LTD
Street Address:	LONZASTRASSE
City:	VISP
State/Country:	SWITZERLAND
Postal Code:	3930

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16966768

#### CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0132-0108US1
NAME OF SUBMITTER:	SCOTT M. WOODHOUSE
SIGNATURE:	/Scott M. Woodhouse #54,747/
DATE SIGNED:	08/11/2022

# Total Attachments: 6

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#### ASSIGNMENT

WHEREAS, Robert YOUNG, Christopher Mark SMALES, Colin Mark JAQUES, Andrew J. RACHER Gurdeep SINGH, James BUDGE and Joanne ROBOOL ("Assignor") hereby irrevocably sells, transfers, conveys, and assigns to LONZA LTD, with principal offices located at Lonzastrasse, Visp, Switzerland 3930 ("Assignee") their entire right, title and interest for the United States of America and its territorial possessions and all other countries and patent regions, including all rights of priority and rights to recover for infringement, in the invention(s) disclosed in the patent application entitled:

### METHODS OF CELL SELECTION AND MODIFYING CELL METABOLISM

which was filed as U.S. Patent Application No. 16/966,768 on July 31, 2020, which is a National Stage of PCT/US2019/016403, filed February 1, 2019, which claims benefit of Provisional Application No. 62/625,773, filed February 2, 2018, in any and all applications thereon, in any and all Letters Patent(s) therefor, and

Assignee is desirous of securing Assignors' entire right, title, and interest in and to this invention in all countries throughout the world, and in and to any application of United States Letters Patent on this invention and the Letters Patent to be issued that may claim priority to this application together with the entire right, title, and interest in and to all patents and patent applications that claim priority thereto as well as all divisional, continuation, continuation-in-part, reissue, reexamination, extension or other applications based in whole or in part thereon or that claim priority or are related by terminal disclaimer thereto or therefrom, and all Letters Patent of the United States and all other countries and patent regions worldwide that may or shall be granted on said inventions, or any parts thereof ("Assignment").

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, Assignor, has sold, assigned, transferred, and set over, and does hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, his entire right, title, and interest in and to this invention and this application, and all divisions, continuations, continuations-in-part thereof, and all Letters Patent of the United States, which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and Assignors hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, ASSIGNOR HEREBY covenants that it has the full right to convey the interest assigned by this Assignment, and it has not executed and will not execute any agreement in conflict with this Assignment;

AND, ASSIGNOR HEREBY further covenants and agrees that it will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to Assignee respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, continuation-in-part, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

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Assignor hereby executes this Assignment.		
	By:	Date: 13JEPZ.
	By;	Date:
	Name: Christopher Mark SMALES	
	By: Name: Colin Mark JAQUES	Date:
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	Ву:	Date:
	Name: Andrew J. RACHER	
	By: Name: Gurdeep SINGH	Date:
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	Ву:	Date:
	Name: James BUDGE	
	By:	Date:
	Name: Joanne ROBOOL	

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### ATTORNEY DOCKET NO.: 0132-0108US1

Assignor hereby executes this ?	Assignment.	en e
		Date:
	Name: Robert YOUNG	
	ву:	Date: 4 2020
	Name: Christopher Mark SMALES	
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	Вух	Date:
	Name: Colin Mark JAQUES	Kora Maraka (1903) Maraka da Maraka (1903) Maraka (1903) Maraka (1903)
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	Name: Andrew J. RACHER	
A Company of the Comp	- By: 3	Date: 0.00000000000000000000000000000000000
	Name: Gurdeep SINGH	
	Ву:	Date: 18/09/2020
	Name: James BUDGE	
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	By:	Date: 16.9.70

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**PATENT** 

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Assignor hereby executes this Assignment.			
	By:	Date:	
	Name: Robert YOUNG		
	By:Name: Christopher Mark SMALES	Date:	
	By:	Date: 16 DEC 2020	
	By: Name: Andrew J. RACHER	Date:	
	By: Name: Gurdeep SINGH	Date:	
	By: Name: James BUDGE	Date:	
	By: Name: Joanne ROBOOL	Date:	

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Assignor hereby executes this .	Assignment.	
	Ву:	Date:
	Name: Robert YOUNG	
	By:Name: Christopher Mark SMALES	Date:
	By: Name: Colin Mark JAQUES	Date:
	By:	Date: 118€P20
	By: Name: Gurdeep SINGH	Date:
	By:Name: James BUDGE	Date:
<b>VIA.3000000000000000000000000000000000000</b>	By: Name: Joanne ROBOOL	Date:

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Assignor hereby executes the	is Assignment.	
	Ву:	Date:
	Name: Robert YOUNG	
	Ву:	Date:
	Name: Christopher Mark SMALES	
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	Ву:	Date:
	Name: Colin Mark JAQUES	
	Ву:	Date:
	Name: Andrew J. RACHER	
	By:	Date: 11 Sep 20
	By:Name: James BUDGE	Date:
**************************************	By:Name: Joanne ROBOOL	Date:

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