

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ADAM HARTIGAN	04/11/2019
ANTHONY BOITANO	04/04/2019
MICHAEL COOKE	03/29/2019
MEGAN D. HOBAN	04/03/2019
RAHUL PALCHAUDHURI	03/29/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MAGENTA THERAPEUTICS, INC.
<b>Street Address:</b>	100 TECHNOLOGY SQUARE, 5TH FLOOR
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16198407
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(857)302-6843
<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>	857 287-3100
<b>Email:</b>	jennifer.lee@wbd-us.com
<b>Correspondent Name:</b>	WOMBLE BOND DICKINSON (US) LLP
<b>Address Line 1:</b>	TWO INTERNATIONAL PLACE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	M103034 1030US.C1
<b>NAME OF SUBMITTER:</b>	BRIANA M. ERICKSON, PH.D.
<b>SIGNATURE:</b>	/Briana M. Erickson/
<b>DATE SIGNED:</b>	05/02/2019
<b>Total Attachments: 6</b>	
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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **Adam Hartigan, Anthony Boitano, Michael Cooke, Megan D. Hoban, Rahul Palchaudhuri** (hereinafter referred to singly and collectively as "ASSIGNOR") have sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

**MAGENTA THERAPEUTICS, INC.**  
100 Technology Square, 5<sup>th</sup> Floor  
Cambridge, Massachusetts 02139  
United States of America

a corporation organized and existing under the laws of the state of Delaware, (hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

Compositions and Methods for the Depletion of CD137+ Cells

as set forth in the following Patent Applications:

United States Application No. 15/875,793, filed January 19, 2018; and  
International Application No. PCT/IB2018/050365, filed January 19, 2018

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified applications and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by

affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Womble Bond Dickinson (US) LLP the authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Womble Bond Dickinson (US) LLP do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

By: *Adam Hartigan*  
Adam Hartigan

Dated: 4/11/2019

Witness:  
*Michael Ross*  
Michael Ross

Dated: 4/11/2019

By: \_\_\_\_\_  
Anthony Boitano

Dated: \_\_\_\_\_

Witness: \_\_\_\_\_  
\_\_\_\_\_

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Michael Cooke

Dated: \_\_\_\_\_

Witness:

\_\_\_\_\_

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Megan D. Hoban

Dated: \_\_\_\_\_

Witness:

\_\_\_\_\_

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Rahul Palchaudhuri

Dated: \_\_\_\_\_

Witness:

\_\_\_\_\_

Dated: \_\_\_\_\_

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affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

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By: \_\_\_\_\_  
Adam Hartigan

Dated: \_\_\_\_\_

Witness:

\_\_\_\_\_

Dated: \_\_\_\_\_


By: Anthony Boitano  
Anthony Boitano

Dated: Apr 14, 2019

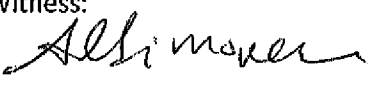
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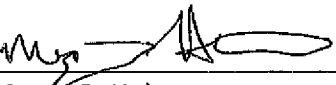
Dated: Apr 14, 2019

By:   
Michael Cooke

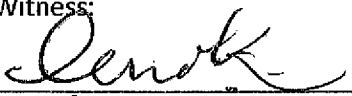
Dated: 3/29/19

Witness:  
  
Angelene Simonetti

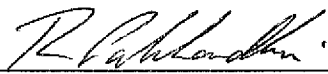
Dated: 3/29/19

By:   
Megan D. Hoban

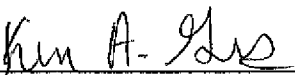
Dated: 4/3/19

Witness:  
  
Lena Kien

Dated: 4/3/19

By:   
Rahul Palchaudhuri

Dated: MARCH 29TH 2019

Witness:  


Dated: 3/29/19