

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5104659

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DEAN FALB	03/10/2017
JONATHAN W. KOTULA	03/10/2017
VINCENT M. ISABELLA	03/10/2017
PAUL F. MILLER	03/16/2017
SUMAN MACHINANI	03/09/2017
SAURABH SAHA	03/10/2017
ADAM B. FISHER	03/13/2017
YVES MILLET	03/10/2017
NING LI	03/15/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SYNLOGIC, INC.
<b>Street Address:</b>	130 BROOKLINE STREET
<b>Internal Address:</b>	#201
<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:	16069220
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)607-9200
<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>	617-449-6500
<b>Email:</b>	lmargolis@mccarter.com
<b>Correspondent Name:</b>	MCCARTER & ENGLISH, LLP
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<b>ATTORNEY DOCKET NUMBER:</b>	126046-01322

<b>NAME OF SUBMITTER:</b>	MARCIE B. CLARKE, J.D., PH.D.
<b>SIGNATURE:</b>	/Marcie B. Clarke/
<b>DATE SIGNED:</b>	08/22/2018
<b>Total Attachments: 11</b> source=126046_01322_Executed Assignment (inventors to Synlogic)#page1.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page2.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page3.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page4.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page5.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page6.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page7.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page8.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page9.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page10.tif source=126046_01322_Executed Assignment (inventors to Synlogic)#page11.tif	

### **ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

Synlogic, Inc.  
130 Brookline Street  
#201  
Cambridge, Massachusetts 02139  
United States of America

(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

### **MICROORGANISMS PROGRAMMED TO PRODUCE IMMUNE MODULATORS AND ANTI-CANCER THERAPEUTICS IN TUMOR CELLS**

as set forth in the following Patent Application:

International Application No. PCT/US2017/013072, filed January 11, 2017

which claims the benefit of the following Applications:

United States Provisional Application No. 62/277,450, filed January 11, 2016  
United States Provisional Application No. 62/277,455, filed January 11, 2016  
United States Provisional Application No. 62/293,749, filed February 10, 2016  
United States Provisional Application No. 62/297,778, filed February 19, 2016  
United States Provisional Application No. 62/305,462, filed March 8, 2016  
United States Provisional Application No. 62/313,691, filed March 25, 2016  
United States Provisional Application No. 62/314,322, filed March 28, 2016  
United States Provisional Application No. 62/335,940, filed May 13, 2016  
International Application No. PCT/US2016/032565, filed May 13, 2016  
United States Patent Application No. 15/164,828, filed May 25, 2016  
International Application No. PCT/US2016/034200, filed May 25, 2016  
United States Provisional Application No. 62/347,508, filed June 8, 2016  
United States Provisional Application No. 62/347,567, filed June 8, 2016  
United States Provisional Application No. 62/348,360, filed June 10, 2016  
United States Provisional Application No. 62/348,699, filed June 10, 2016  
United States Provisional Application No. 62/354,682, filed June 24, 2016  
United States Provisional Application No. 62/362,954, filed July 15, 2016  
United States Provisional Application No. 62/385,235, filed September 8, 2016  
United States Provisional Application No. 62/423,170, filed November 16, 2016  
United States Provisional Application No. 62/439,871, filed December 28, 2016  
United States Provisional Application No. 62/443,639, filed January 6, 2017

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 **McCarter & English, LLP** the power and 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.

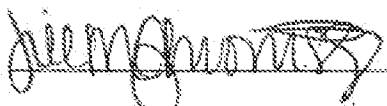
ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **McCarter & English, LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with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

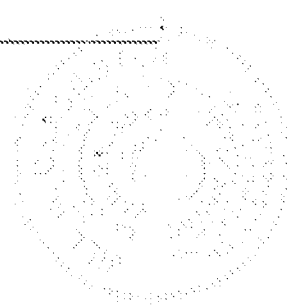
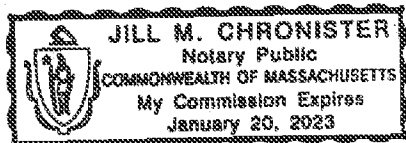
Executed this 10<sup>th</sup> day of March, 2017.

  
Dean Falb


United States of America )  
State of Massachusetts )  
County of Middlesex )

On this 10 day of March, 2017, before me,  
the undersigned notary public, personally appeared Dean Falb  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was license, to be the person whose name  
is signed on the preceding or attached document in my presence.

 (official signature and seal of notary)  
My commission expires January 20, 2023

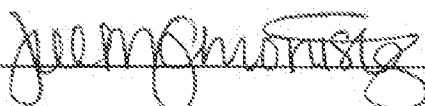


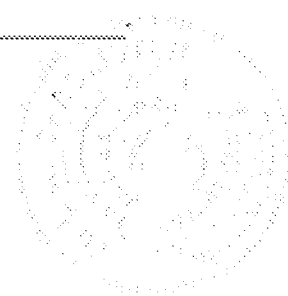
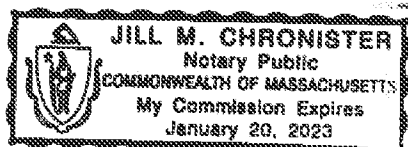
Executed this 10 day of March, 2017.

  
\_\_\_\_\_  
(Jonathan W. Kotula)

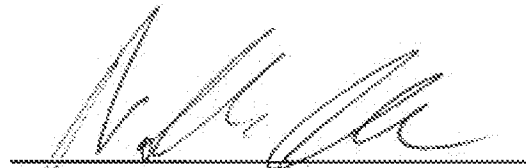
United States of America )  
State of Massachusetts )  
County of Middlesex )

On this 10 day of March, 2017, before me,  
the undersigned notary public, personally appeared Jonathan W. Kotula  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was license, to be the person whose name  
is signed on the preceding or attached document in my presence.

 (official signature and seal of notary)  
My commission expires January 20, 2023

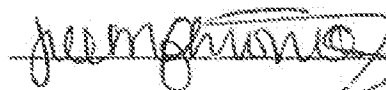


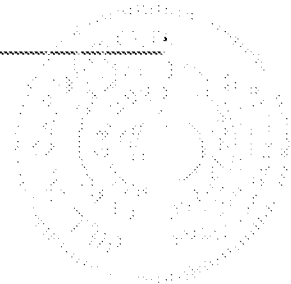
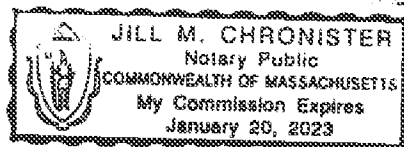
Executed this 10 day of March, 2017.

  
\_\_\_\_\_  
Vincent M. Isabella

United States of America )  
State of Massachusetts )  
County of Middlesex )

On this 10 day of March, 2017, before me,  
the undersigned notary public, personally appeared Vincent M. Isabella  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was license, to be the person whose name  
is signed on the preceding or attached document in my presence.

 (official signature and seal of notary)  
My commission expires January 20, 2023

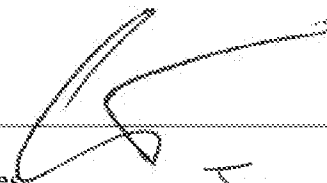


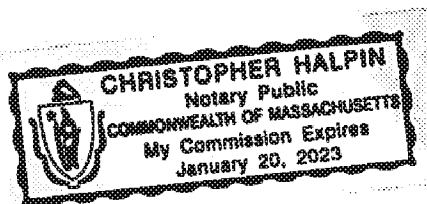
Executed this 16 day of March, 2017.

  
Paul F. Miller

United States of America )  
State of MASSACHUSETTS )  
County of Middlesex )

On this 16 day of March, 2017, before me,  
the undersigned notary public, personally appeared Paul F. Miller  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was License, to be the person whose name  
is signed on the preceding or attached document in my presence.

  
(official signature and seal of notary)  
My commission expires January 20, 2023





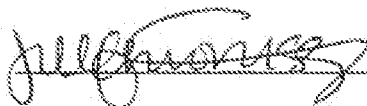
Executed this 9 day of March, 2017.



Suman Machinani

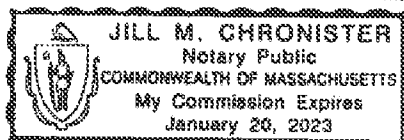
United States of America )  
State of Massachusetts  
County of Middlesex

On this 9 day of March, 2017, before me,  
the undersigned notary public, personally appeared Suman Machinani  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was license, to be the person whose name  
is signed on the preceding or attached document in my presence.



(official signature and seal of notary)

My commission expires January 20, 2023



Executed this 10<sup>th</sup> day of March, 2017.

  
Saurabh Saha

United States of America

State of

Massachusetts

County of

Norfolk

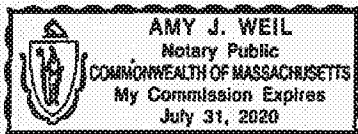
On this 10<sup>th</sup> day of March, 2017, before me,

the undersigned notary public, personally appeared Saurabh Saha

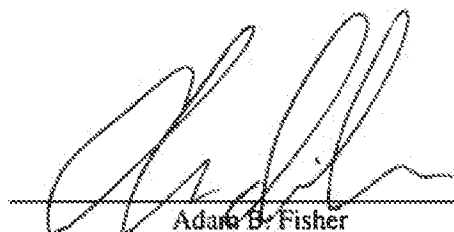
(name of document signer), proved to me through satisfactory evidence of identification,

which was driver's license, to be the person whose name  
is signed on the preceding or attached document in my presence.

 (official signature and seal of notary)  
My commission expires 7.31.2020

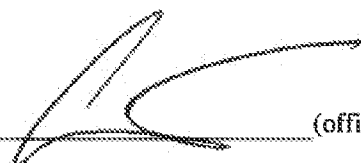


Executed this 13<sup>th</sup> day of March, 2017.

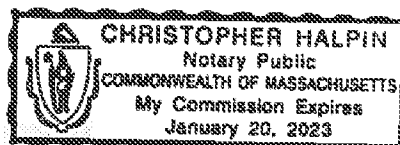
  
Adam B. Fisher

United States of America )  
State of MASSACHUSETTS )  
County of Middlesex )

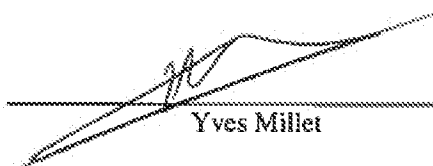
On this 13 day of March, 2017, before me,  
the undersigned notary public, personally appeared Adam B. Fisher  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was License, to be the person whose name  
is signed on the preceding or attached document in my presence.

  
(official signature and seal of notary)

My commission expires January 20, 2023.

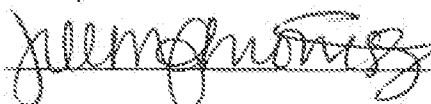


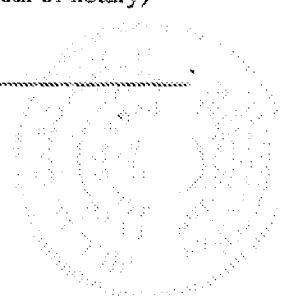
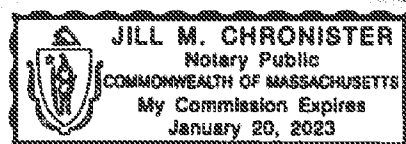
Executed this 10 day of March, 2017.

  
Yves Millet


United States of America )  
State of Massachusetts )  
County of Middlesex )

On this 10 day of March, 2017, before me,  
the undersigned notary public, personally appeared Yves Millet  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was license, to be the person whose name  
is signed on the preceding or attached document in my presence.

 (official signature and seal of notary)  
My commission expires January 20, 2023




Executed this 15 day of March, 2017.

  
Ning Li

United States of America )  
State of MASSACHUSETTS )  
County of MIDDLESEX )

On this 15 day of March, 2017, before me,  
the undersigned notary public, personally appeared Ning Li  
(name of document signer), proved to me through satisfactory evidence of identification,  
which was License, to be the person whose name  
is signed on the preceding or attached document in my presence.

  
\_\_\_\_\_(official signature and seal of notary)  
My commission expires January 20, 2023

