505299395 01/28/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREW WONHEE HAN	04/17/2018
ANDREW WHITMAN GOODYEAR	04/17/2018
TARUNMEET GUJRAL	04/17/2018
TODD ZACHARY DESANTIS	04/17/2018
KARIM DABBAGH	04/19/2018
TOSHIHIKO TAKEUCHI	04/17/2018
YE JIN	04/17/2018
MICHI IZUMI WILLCOXON	04/17/2018
STEFANIE BANAS	04/17/2018

RECEIVING PARTY DATA

Name:	SECOND GENOME, INC.	
Street Address:	341 ALLERTON AVENUE	
City:	SOUTH SAN FRANCISCO	
State/Country:	CALIFORNIA	
Postal Code:	94080	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16259286

CORRESPONDENCE DATA

Fax Number: (202)842-7899

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: 202-842-7800

Email: cphillipnouchet@cooley.com, zpatdcdocketing@cooley.com

COOLEY LLP Correspondent Name:

Address Line 1: 1299 PENNSYLVANIA AVENUE NW, SUITE 700

Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER: SEGE-001/05US 321077-2053 NAME OF SUBMITTER: JONG-JIN HAN

SIGNATURE:	/Jong-Jin Han/
DATE SIGNED:	01/28/2019
Total Attachments: 13	
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ASSIGNMENT (Joint)

Andrew Wonhee Han, residing at 58 Staples Ave., San Francisco, CA 94131; Andrew Whitman Goodyear, residing at 790 Claridge Drive, Pacifica, CA 94044; Tarunmeet Gujral, residing at 143 East Court Lane, Foster City, CA 94404; Todd Zachary DeSantis, residing at 626 Salem Ct, Livermore, CA 94551; Karim Dabbagh, residing at 1891 Drew Ave, Mountain View, CA 94043; Toshihiko TAKEUCHI, residing at 7330 Woodrow Dr., Oakland, CA 94611; Ye JIN, residing at 2108 Blackhawk Road, Danville, CA 94506; Michi Izumi WILLCOXON, residing at 2340 Harvard St., Palo Alto, CA 94306; and Stefanie BAÑAS, residing at P.O. Box 21112, Concord, CA 94521 (referred to as "Assignor") has made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled PROTEINS FOR THE TREATMENT OF EPITHELIAL BARRIER FUNCTION DISORDERS, and which is a:

(1)	provisional application
	(a) to be filed herewith; or
	(b) bearing Application No. , and filed on ;
(2)	⊠ non-provisional application
	(a) to be filed herewith; or
	(b) bearing Application No. 15/947,263, and filed on April
	6, 2018; and/or
(3)	□ PCT application □ PCT applica
	(a) bearing Application No. PCT/US2018/026447, and
	filed on April 6, 2018.

WHEREAS, Second Genome, Inc., a corporation having its principal place of business at 341 Allerton Avenue, South San Francisco, CA 94080 its successors, legal representatives and assigns, (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so

in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application(s) for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any substitute application(s), division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that

173023061 vi

Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.), without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application(s) identified above when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

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Page 4 of 13

Date: _	4/17/18	By: Andrew Wonbee HAN	
Date: _	4/17/18	By: Andrew Wonhee HAN	

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of)
County of)
On, before me,,
Notary Public, personally appeared,
who proved to me on the basis of satisfactory evidence, to be the person(s) whose
name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of
which the person(s) acted, executed the instrument.
REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under
PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.
WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires:

Andrew Whitman GOODYEAR

	npleting this certificate verifies only the identity of the not to which this certificate is attached, and not the of that document.
State of)
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he/she/they executed the same in	h his/her/their authorized capacity(ies), and that by
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which the person(s) acted, executed	I the instrument,
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paragraph is true and correct.	
WITNESS my hand and official sea	al.
Signature of Notary Public	Place Notary Seal Above
My Commission Expires:	

Ву:

Page 6 of 13

Date: 04/17/2018	By:
	Tarunmeet GUJRAL

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of)
County of)
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WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires:

Date: /// 8 - 07 - 17 By:
Todd Zachary DESANTIS
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State of)
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WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires:

173023061 vI

Page 8 of 13

Date:	4/19/2018	Ву:		
			rim DABBAGH	

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of)
County of)
On, before me,, Notary Public, personally appeared,
who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.
WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires:

Date:4/	17/2018	By:		
	•	*	Toshihiko TAKEUCHI	
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A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of)
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REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under
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paragraph is true and correct.
WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires:

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REQUIRED SENTENCE IF NO	OTARIZED IN CALIFORNIA: I certify under
PENALTY OF PERJURY under th	e laws of the State of California that the foregoing
paragraph is true and correct.	
WITNESS my hand and official seal	
Signature of Notary Public	Place Notary Seal Above
My Commission Expires:	

A notary public or other officer completing this certificate verifies only the identity of the

Michi Izumi WILLCOXON

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	ng this certificate verifies only the identity of the hich this certificate is attached, and not the document.
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WITNESS my hand and official seal.	
	
Signature of Notary Public	Place Notary Seal Above
My Commission Expires:	

Date: 4//7//8

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State of)			
County of)			
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name(s) is/are subscribed to the within instrument and acknowledged to me that			
he/she/they executed the same in his/her/their authorized capacity(ies), and that by			
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of			
which the person(s) acted, executed the instrument.			
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WITNESS my hand and official seal.			
Signature of Notary Public Place Notary Seal Above			
My Commission Expires:			

Page 13 of 13

For and on behalf of ASSIGNEE:	
Man.	Nedwin, Ph.D. xecutive Officer Genome, Inc.
A notary public or other officer completing this certificate verifies onl individual who signed the document to which this certificate is attache truthfulness, accuracy, or validity of that document.	ed, and not the
State of)	
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he/she/they executed the same in his/her/their authorized capacity	· ·
his/her/their signature(s) on the instrument the person(s), or the en	ity upon behalf of
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PENALTY OF PERJURY under the laws of the State of California	that the foregoing
paragraph is true and correct.	
WITNESS my hand and official seal.	*
Signature of Notary Public Place No	otary Seal Above
My Commission Expires:	

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