01/25/2019 505296719

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5343496

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MALLORY EMBREE	01/18/2019
LUKE PICKING	01/25/2019
GRANT GOGUL	01/14/2019
JANNA TARASOVA	01/18/2019

RECEIVING PARTY DATA

Name:	ASCUS BIOSCIENCES, INC.
Street Address:	6450 LUSK BOULEVARD
Internal Address:	SUITES E109/209
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16206098
Application Number:	16207811

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: 202-728-7128

zippatentdocketingmailboxus@cooley.com Email: COOLEY LLP, ATTN: PATENT GROUP **Correspondent Name:** 1299 PENNSYLVANIA AVENUE, NW Address Line 1:

Address Line 2: SUITE 700

Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER:	ASBI-002/06US 325233-2110	
NAME OF SUBMITTER:	YI WANG	
SIGNATURE:	/Yi Wang/	
DATE SIGNED:	01/25/2019	

Total Attachments: 8

source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page1.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page2.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page3.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page4.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page5.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page6.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page7.tif source=2019-01-25-ASBI-002-06US_and ASBI-002-07US_Assignment_Fully Executed#page8.tif

ASSIGNMENT

Mallory EMBREE, having a mailing address of c/o Ascus Biosciences, Inc., 6450 Lusk Blvd., E109/209, San Diego, CA 92121; Luke PICKING, having a mailing address of c/o Ascus Biosciences, Inc., 6450 Lusk Blvd., E109/209, San Diego, CA 92121; Grant GOGUL, having a mailing address of c/o Ascus Biosciences, Inc., 6450 Lusk Blvd., E109/209, San Diego, CA 92121; and Janna TARASOVA, having a mailing address of c/o Ascus Biosciences, Inc., 6450 Lusk Blvd., E109/209, San Diego, CA 92121 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent entitled COW FOOD AND METHODS OF HUSBANDRY FOR INCREASED MILK PRODUCTION, and which is a:

(1)	provisional application
	(a) to be filed herewith; or
	(b) bearing Application No., and filed on;
(2)	x non-provisional application (a) to be filed herewith; or
	(a)to be filed herewith; or
	(b) x bearing Application No. 16/206,098, and filed on November 30, 2018; and/or
(3)	x non-provisional application
	(a)to be filed herewith; or
	(b) x bearing Application No. 16/207,811, and filed on December 3, 2018 ; and/or
(4)	PCT application
	(a) bearing Application No., and filed on.
	and/or
(5)	attached hereto.

WHEREAS, Ascus Biosciences, Inc., a having its principal place of business at 6450 Lusk Boulevard, Suites E109/209, San Diego, CA 92121, 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 priority application(s), 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.

Page 3 of 8 Attorney Docket Nos. ASBI-002/06US 325233-2110 ASBI-002/07US 325233-2109

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 a lawful owner of an undivided interest in 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 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.

 $193035804\,\mathrm{v1}$

Page 4 of 8 Attorney Docket No. ASBI-002/06US 325233-2110 ASBI-002/07US 325233-2109

Date: _	1/18/2019	Ву:			
			Whati	ory Embree	
individ	ry public or other officer cual who signed the docum lness, accuracy, or validity	ent to which th	is certificate is atta-	only the identity of the ched, and not the	***************************************
State of	of <u>Californio</u>)	88.		
County	of <u>San Die</u>	<u> </u>			
proved subscrit in lais/h the pers REQUI	to the on the basis of satis bed to the within instrume er/their authorized capacit son(s), or the entity upon b RED SENTENCE IF NO RY under the laws of the 5	factory evidence ont and acknowl y(iss), and that wehalf of which I'ARIZED IN C	wantory Embree te, to be the persone edged to me that is by his/her/their sig the person(s) acted CALIFORNIA: I ce	, who (s) whose name(s) is/ase c/she/shey executed the si cnature(s) on the instrument cexecuted the instrument crify under PENALTY C	ent t.
WITNE	SSS my hand and official s	eal.		GHADA ABOUHAAZE Notary Public - California San Diego County Commission # 2271934	
<u>CZ h</u>	Puch show	ACM 2		My Comm. Expires Jan 16, 2023	
Signatu	re of Notary Public	77	Plac	e Notary Seal Above	
My Cor	nmission Expires: <u>Ja</u>	016/20	2_3		

Date: 01-25-19 By:	Luke Picking
A notary public or other officer completing this cindividual who signed the document to which this truthfulness, accuracy, or validity of that docume	contificate is attached and and the
State of ON	
State of ON) County of San Francisco)	SS. PRESIDENT SECURIC CONTROL OF THE SECURITY
On 01/25/2019, before me, RODAFO	ARCUELLO . Notary
Public, personally appeared proved to me on the basis of satisfactory evidence	EUNG CUENTIO TOTAL
subscribed to the within instrument and acknowle in his/her/their authorized capacity(ies), and that I the person(s), or the entity upon behalf of which the REQUIRED SENTENCE IF NOTARIZED IN CAPERJURY under the laws of the State of Californic correct.	dged to me that he/she/they executed the same by his/her/their signature(s) on the instrument he person(s) acted, executed the instrument. ALIFORNIA: I certify under PENALTY OF
WITNESS my hand and official seal.	RODOLFO ARGUELLO COMM. 82180858 NOTARY PUBLIC &CALIFORNIA San Francisco County Commercian Expires May DS, 2021
Signature of Wotary Public	Place Notary Seal Above
My Commission Expires: Orlor)2021	

Page 6 of 8 Attorney Docket No. ASBI-002/06US 325233-2110 ASBI-002/07US 325233-2109

Date: 01/14/2019 By: Gut Edg	ul Grant Gogul
A rotanility of CC	
A notary public or other officer completing this certificate veri individual who signed the document to which this certificate is truthfulness, accuracy, or validity of that document.	fies only the identity of the attached, and not the
State of Colifornia) ss. County of San Diego)	
On Jan 14, 2019, before me, Shada Abou Public, personally appeared Grant Gogul	<u>Nam≥</u> , Notary who
proved to me on the basis of satisfactory evidence, to be the persubscribed to the within instrument and acknowledged to me the in his/her/their authorized capacity(ies), and that by his/her/their the person(s), or the entity upon behalf of which the person(s) a REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: PERJURY under the laws of the State of California that the form	rson(s) whose name(s) is/are at he/she/they executed the same ir signature(s) on the instrument acted, executed the instrument. Thereify under PENALTY OF
correct.	egoing baragraph is true and
WITNESS my hand and official seal.	GHADA ABOU- HAMZE COMM. #2097413 Notary Public - California San Diego Caunty
Charle Alexan Danz	San Diego County S My Comm. Expires Jan. 16, 2019 (
Signature of Notary Public	Place Notary Seal Above
My Commission Expires: Jan 16,2019	

Page 7 of 8 Attorney Docket No. ASBI-002/06US 325233-2110 ASBI-002/07US 325233-2109

Date: 1.18.19	By: Janna Tarasova
A notary public or other officer compindividual who signed the document truthfulness, accuracy, or validity of	pleting this certificate verifies only the identity of the to which this certificate is attached, and not the that document.
State of <u>California</u> County of <u>San Diego</u>)) ss)
in his/her/their authorized capacity(ie the person(s), or the entity upon beha REQUIRED SENTENCE IF NOTAR	Janna Tarasova , who tory evidence, to be the person(s) whose name(s) is/are and acknowledged to me that he/she/they executed the sames), and that by his/her/their signature(s) on the instrumental of which the person(s) acted, executed the instrument. RIZED IN CALIFORNIA: I certify under PENALTY OF the of California that the foregoing paragraph is true and
WITNESS my hand and official seal. May Low Helware	CINDY LOU STEWART Notary Public - California San Diego County Commission # 2246167 My Comm. Expires Jun 16, 2022
Signature of Notary Public My Commission Parisman Tubes	Place Notary Seal Above
My Commission Expires: \(\sqrt{UNE} \)	14

Page 8 of 8 Attorney Docket No. ASBI-002/06US 325233-2110 ASBI-002/07US 325233-2109

For and on behalf of ASSIGNE	3:	
Date:	· ·	Name: Michael Ceety Title: CEO Company: Ascus Biosciences, Inc.
A notary public or other officer individual who signed the docu truthfulness, accuracy, or validi	ment to which this co	ificate verifies only the identity of the ertificate is attached, and not the
State of)	
County of) ss)	
proved to me on the basis of sati subscribed to the within instrum	isfactory evidence, to ent and acknowledge	, Notary , who be the person(s) whose name(s) is/are ed to me that he/she/they executed the same this/her/their signature(s) on the instrument
REQUIRED SENTENCE IF NO	behalf of which the DTARIZED IN CAL	person(s) acted, executed the instrument. IFORNIA: I certify under PENALTY OF that the foregoing paragraph is true and
WITNESS my hand and official	seal.	·
Signature of Notary Public		Place Notary Seal Above
My Commission Expires:		

193035804 v1