PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4992771

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID R. WALT	01/18/2018
SHAZIA BAIG	02/01/2018
STEPHANIE SCHUBERT	05/18/2018

RECEIVING PARTY DATA

Name:	TRUSTEES OF TUFTS COLLEGE	
Street Address:	TUFTS UNIVERSITY	
Internal Address:	BALLOU HALL	
City:	MEDFORD	
State/Country:	MASSACHUSETTS	
Postal Code:	02155	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15824761

CORRESPONDENCE DATA

Fax Number: (617)310-6001

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: 617-310-6224

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Correspondent Name: MELISSA HUNTER-ENSOR, PH.D. Address Line 1: ONE INTERNATIONAL PLACE Address Line 2: GREENBERG TRAURIG, LLP

Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	167774.011601/US
NAME OF SUBMITTER:	MELISSA HUNTER-ENSOR, PH.D.
SIGNATURE: /MELISSA HUNTER-ENSOR, PH.D./	
DATE SIGNED:	06/06/2018

Total Attachments: 12

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ASSIGNMENT BY INVENTOR(S)

WHEREAS, Assignor(s) have invented certain new and useful improvements in "COMPOSITIONS AND METHODS FOR DIAGNOSING BREAST CANCER," as set forth in an application for Letters Patent of the United States already filed on November 28, 2017, as U.S. Patent Application No.: 15/824,761; which claims the benefit of United States Provisional Application No. 62/427,663, filed November 29, 2016;

WHEREAS, Trustees of Tufts College, a Corporation, organized under and pursuant to the laws of Massachusetts having a principal place of business at Tufts University, Ballou Hall, Medford, MA 02155, (hereinafter referred to as Assignee(s)), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, Assignor(s) have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee(s), their successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee(s), for their own use and benefit and the use and benefit of their successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and

enjoyed by Assignor(s), had this sale and assignment not been made.

AND for the same consideration, Assignor(s) hereby represents and warrants to Assignee(s), their successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee(s) under law or that have already been transferred to Assignee(s), Assignor(s) are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor(s) have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor(s) hereby covenants and agrees to and with Assignee(s), their successors, legal representatives and assigns, that Assignor(s) will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee(s), their successors, legal representatives and assigns, whenever counsel of Assignee(s), or counsel of their successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Provisional application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor(s) hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee(s), as Assignee(s) of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee(s), their successors, legal representatives and assigns.

Tufts Ref.: T002192

AND Assignor(s) hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

GREENBERG TRAURIG, LLP

All practitioners at Customer Number 35893

AND Assignor(s) acknowledge an obligation of assignment of this invention to Assignee(s) at the time the invention was made.

Tufts Ref.: T002192

United States of America

State of County of

On this _________, day of __________, 201 \mathbb{E}, before me personally came David R. Walt, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

My commission Expires:

ASSIGNMENT BY INVENTOR(S)

THIS ASSIGNMENT, made this
201K, by David R. Walt, Shazia Baig and Stephanie Schubert, all c/o Trustees of Tufts
College, Tufts University, Ballou Hall, Medford, MA 02155 (hereinafter referred to as
Assignor(s)).

WHEREAS, Assignor(s) have invented certain new and useful improvements in "COMPOSITIONS AND METHODS FOR DIAGNOSING BREAST CANCER," as set forth in an application for Letters Patent of the United States already filed on November 28, 2017, as U.S. Patent Application No.: 15/824,761; which claims the benefit of United States Provisional Application No. 62/427,663, filed November 29, 2016;

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GREENBERG TRAURIG, LLP

All practitioners at Customer Number 35893

AND Assignor(s) acknowledge an obligation of assignment of this invention to Assignee(s) at the time the invention was made.

Shazia Baig

United States of America

State of

Massachusetts) ss

County of

middleson)

On this day of Volume, 2018, before me personally came Shazia Baig, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

My commission Expires:

EILEEN M. COOMBES
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires
February 10, 2023

ASSIGNMENT BY INVENTOR(S)

THIS ASSIGNMENT, made this 18 day of May,
2018, by David R. Walt, Shazia Baig and Stephanie Schubert, all coo Trustees of Tufts
College, Tufts University, Ballou Hall, Medford, MA 02155 (hereinafter referred to as
Assignor(s)).

WHEREAS, Assignor(s) have invented certain new and useful improvements in "COMPOSITIONS AND METHODS FOR DIAGNOSING BREAST CANCER," as set forth in an application for Letters Patent of the United States already filed on November 28, 2017, as U.S. Patent Application No.: 15/824,761; which claims the benefit of United States Provisional Application No. 62/427,663, filed November 29, 2016;

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AND Assignor(s) hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

GREENBERG TRAURIG, LLP

All practitioners at Customer Number 35893

AND Assignor(s) acknowledge an obligation of assignment of this invention to Assignee(s) at the time the invention was made.

3

Alexand AMM Stephanic Schubert

United States of America)
State of New York) ss:
County of Schenectady)

On this 18th day of May, 2015, before me personally came Stephanie Schubert, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

My commission Expires: September 27, 2018

PREMNARINE JADDU
Notary Public, State of New York
No. 01JA6228798
Qualified in Schenectady County
Commission Expires September 27,20 18