

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HAO H. ZHANG	08/16/2017
WARREN D. D'SOUZA	08/16/2017
BYONG YONG YI	08/07/2017
GOKHAN KIRLIK	08/21/2017
RECEIVING PARTY DATA	
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Internal Address:	OFFICE OF RESEARCH AND DEVELOPMENT, OTT
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21201
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16324060
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<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>	
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ATTORNEY DOCKET NUMBER:	15024-339US2 /HZ-2016-119
NAME OF SUBMITTER:	YELENA KOVALETS
SIGNATURE:	/Yelena Kovalets/
DATE SIGNED:	02/08/2019
Total Attachments: 3	

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ASSIGNMENT

In consideration of UMB's agreement to consider Assignors as "UMB Inventors" who are entitled to revenue distributions under the University System of Maryland Policy on Intellectual Property, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **Hao H. Zhang, Warren D. D'Souza, Byong Yong Yi, and Gokhan Kirlik** ("Assignors") hereby convey, assign, and transfer to the **University of Maryland, Baltimore**, a public university that is part of the University System of Maryland (which is a public corporation and an instrumentality of the State of Maryland) ("UMB"), and having an office c/o Office of Research and Development, 620 W. Lexington Street, 4th floor, Baltimore, MD 21201, their entire right, title, and interest in and to the invention known as "**System and Method for Optimizing a Treatment Plan for Irradiation Therapy**" (the "**Invention**"):

check applicable space(s) ☒ [X] for the United States of America (as defined in 35 U.S.C. §100)

☒ [X] and throughout the world,

for which application for patent was filed under the Patent Cooperation Treaty on **August 3, 2017** (also known as international patent application number **PCT/US2017/045285**), claiming benefit of US provisional patent application number 62/372,492, filed August 9, 2016, and in any and all non-provisional and/or international or foreign patent applications thereon, continuing patent applications thereon (including without limitation substitutions, divisionals, continuations, and continuations-in-part), patents or Letters Patent issued therefrom, and reissues, extensions, renewals, and reexaminations of such applications or patents.

Such entire right, title, and interest in the Invention are to be held and enjoyed by UMB to the same extent as they would have been held and enjoyed by Assignors had this Assignment not been made, to the full end of the term or terms for which any such patent(s) issue. Assignors hereby represent and warrant that they have full right to convey their right, title, and interest in the Invention herein assigned, and that he/she/they has/have not executed and will not execute any agreement or other document in conflict therewith.

Assignors agree to execute and deliver separate Assignments, patent applications, and other documents necessary or expedient in connection with, and to cooperate with and to assist UMB in connection with: further perfecting the assignment of the Invention to UMB; UMB's preparation, filing, prosecution (including without limitation defense in interference proceedings, reexaminations, or litigation), enforcement, and/or maintenance of the patents and patent applications; or for UMB to protect and commercialize its intellectual property right, title, and interests in the Invention (including without limitation copyright and/or trademarks).

IN WITNESS WHEREOF, executed by Assignors on the date opposite his/her name.

ASSIGNOR:

8/16/17
Date

Hao H. Zhang (SEAL)

Address:
8052 Tuckerman Lane
Potomac, MD 20854

STATE OF _____)
CITY / COUNTY OF _____)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared **Hao H. Zhang**, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

_____[SEAL]
Notary Public

My Commission Expires: _____

8/16/17
Date

ASSIGNOR:

[Signature] (SEAL)
Warren D. D'Souza

Address:
6 Westspring Way
Timonium, MD 21093

STATE OF Maryland
CITY / COUNTY OF Baltimore City)

I HEREBY CERTIFY, that on this 16 day of August, 20 17, before me, Notary Public of the State of Maryland, personally appeared Warren D. D'Souza, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[Signature] (SEAL)
Notary Public

My Commission Expires: 01/13/18

Aug 7, 2017
Date

ASSIGNOR:

[Signature] (SEAL)
Byong Yong Yi

Address:
11118 Radcliff Lane
Fulton, MD 20759

STATE OF Maryland
CITY / COUNTY OF Baltimore City)

I HEREBY CERTIFY, that on this 7 day of August, 20 17, before me, Notary Public of the State of Maryland, personally appeared Byong Yong Yi, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[Signature]
My Commission Expires: 01/13/18

[Signature] (SEAL)
Notary Public

ASSIGNOR:

8/21/17
Date

Gokhan Kirlik

(SEAL)

Address:

11 N. Eutaw Street, Apt 611
Baltimore, MD 21201

7825 Mistletoe Dr
Elkridge, MD 21075

STATE OF

CITY / COUNTY OF

Maryland
Baltimore

G.K. 8/21/17

I HEREBY CERTIFY, that on this 21st day of August, 2017, before me, Notary Public of the State of _____, personally appeared Gokhan Kirlik, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

Notary Public

[SEAL]

My Commission Expires:

8/21/18

Gail Knott
Notary Public
State of Maryland
Baltimore County