504771834 02/09/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YURIKO MORI	02/04/2018
STEPHEN MELTZER	02/02/2018

RECEIVING PARTY DATA

Name:	THE JOHNS HOPKINS UNIVERSITY	
Street Address:	3400 N. CHARLES STREET	
City:	BALTIMORE	
State/Country:	MARYLAND	
Postal Code:	21218	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13876568

CORRESPONDENCE DATA

Fax Number: (410)223-1730

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: 4106140300 Email: colive13@jhmi.edu

Correspondent Name: JOHNS HOPKINS TECHNOLOGY VENTURES

Address Line 1: 1812 ASHLAND AVENUE

Address Line 2: SUITE 110

Address Line 4: BALTIMORE, MARYLAND 21205

ATTORNEY DOCKET NUMBER:	P11173-03
NAME OF SUBMITTER:	GUIDO J. GALVEZ
SIGNATURE:	/Guido J. Galvez/
DATE SIGNED:	02/09/2018

Total Attachments: 3

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WORLDWIDE ASSIGNMENT

WHEREAS, We, Yuriko Mori, Stephen Meltzer; hereinafter collectively referred to as the ASSIGNOR(s), have invented a certain new and useful improvement relating to DNA HYPERMETHYLATION DIAGNOSTIC BIOMARKERS FOR COLORECTAL CANCER, hereinafter referred to as the INVENTION(s), for which an application was filed in the United States Patent and Trademark Office on July 01, 2013, as United States Patent Application Number 13/876,568, in addition to:

- [X] said application(s) having been filed under the Patent Cooperation Treaty in the United States Receiving Office on October 04, 2011, and given International Application Number PCT/US2011/054781, and:
- [X] said application(s) having been filed as U.S. Provisional Patent Application on October 04, 2011 and given Application No. 61/389,304 and U.S. Provisional Patent Application filed on February 16, 2011, and given Application No. 61/443,562; wherein all applications listed above being hereinafter referred to as the APPLICATION(s):

WHEREAS, The Johns Hopkins University, a corporation duly organized under the laws of the State of Maryland, having a place of business at 3400 N. Charles Street, Baltimore, Maryland 21218, USA, hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to the INVENTION(s) and the APPLICATION(s) and each and every priority right that is or may be predicated upon or arise from the INVENTION(s) and APPLICATION(s), including any divisions, continuations, substitutions, renewals, reissues, reexaminations, and extensions thereof, and any and all applications claiming priority therefrom, and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, that for good and sufficient consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR(s) hereby sells, assigns, transfers, and sets over, and has assigned, sold, transferred, and set over, to ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the INVENTION(s) and the APPLICATION(s) and each and every priority right that is or may be predicated upon or arise from the INVENTION(s) and APPLICATION(s), including any divisions, continuations, substitutions, renewals, reissues, reexaminations, and extensions thereof, and any and all applications claiming priority therefrom, and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, the same to be held and enjoyed by ASSIGNEE, for its own use and benefit and for the use and benefit of its 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 represent and warrant to ASSIGNEE, its 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 under law or that have already been transferred to

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ASSIGNEE, ASSIGNOR(s) are the sole and lawful owners of the entire right, title and interest in and to the INVENTION(s) and APPLICATION(s) for Letters Patent, 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 set forth herein;

AND for the same consideration, ASSIGNOR(s) hereby covenant and agree to and with ASSIGNEE, its successors, legal representatives, and assigns, that ASSIGNOR(s) will sign, execute, and deliver to ASSIGNEE all papers and documents, including, but not limited to, petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance that may be requested by ASSIGNEE, to communicate to or furnish ASSIGNEE with any and all facts relating to the INVENTION(s) or the history thereof and any and all documents, data, photographs, models, samples, prototypes, biological deposits, or other physical exhibits which may embody the INVENTION(s), to testify in any proceedings relating to the INVENTION(s), patent applications, and/or Letters Patent, take all lawful oaths, and otherwise 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 INVENTION(s), without charge to ASSIGNEE, its successors, legal representatives and assigns, whenever counsel of ASSIGNEE, or counsel of its successors, legal representatives, and assigns, shall advise that any proceeding, including, but not limited to, interference proceedings, in connection with said INVENTION(s), or said APPLICATION(s) for Letters Patent, or Letters Patent, and each and every priority right that is or may be predicated upon or arise from the INVENTION(s) and APPLICATION(s), including any divisions, continuations, substitutions, renewals, reissues, reexaminations, and extensions thereof, and any and all applications claiming priority therefrom, in the United States and its territorial possessions and in any and all foreign countries is lawful and desirable;

AND ASSIGNOR(s) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, including the Commissioner of Patent and Trademarks, and Patent Office Officials in any and all foreign countries to issue any and all of said Letters Patent, when granted, to ASSIGNEE as the assignee of my/our entire right, title, and interest in said INVENTION(s) and the Letters Patent to be issued thereon, for the sole use and benefit of ASSIGNEE, its successors, legal representatives, and assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR(s) had this Assignment not been made;

AND ASSIGNOR(s) hereby grant an authorized representative of ASSIGNEE the power to insert in this Assignment any further identification, including the application number(s) and filing date(s), which may be necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment;

AND ASSIGNOR(s) acknowledge an obligation of assignment in this invention to ASSIGNEE at the time the invention was made;

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IN WITNESS WHEREOF, each individual collectively referred to as ASSIGNOR has caused this Assignment to be executed.

EXECUTED this 4 day of February 2018.	
ASSIGNOR: Yuriko Mori	WITNESS:
Signature:	Signature:
Name: Yuriks Mori	Name: A-1 Brown
EXECUTED this <u>I</u> day of <u>Foliati</u> /2018.	
ASSIGNOR: Stephen, Meltzer	WITNESS:
Signature:	Signature:
Name:	Name: Vilan Chepq

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RECORDED: 02/09/2018