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# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
REBEKAH A DREZEK	06/26/2018
RICHARD G BARANIUK	06/06/2018
AMIRALI AGHAZADEH	03/11/2019
MONA SHEIKH	06/28/2018
ADAM Y LIN	06/26/2018
ALLEN L CHEN	06/09/2018
PALLAVI BUGGA	06/27/2018

### **RECEIVING PARTY DATA**

Name:	WILLIAM MARSH RICE UNIVERSITY
Street Address:	6100 MAIN STREET
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77005

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15944586

### **CORRESPONDENCE DATA**

Fax Number:

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.

**Email:** wkelley@phiplaw.com

Correspondent Name: PARKER HIGHLANDER PLLC

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Address Line 2: BUILDING 1, SUITE 200
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ATTORNEY DOCKET NUMBER:	RICE.P0021US
NAME OF SUBMITTER:	WILLIAM KELLEY
SIGNATURE:	/William Kelley/
DATE SIGNED:	08/23/2019

# Total Attachments: 10 source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page1.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page2.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page3.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page4.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page5.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page6.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page7.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page8.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page9.tif source=RICE.P0021US - Fully Executed Assignment (00699398xCCC41)#page9.tif

### ASSIGNMENT

This Patent Assignment ("Assignment") is made and entered into by and between, Rebekah A. DREZEK, Richard G. BARANIUK, Amirali AGHAZADEH, Mona SHEIKH, Adam Y. LIN, Allen L. CHEN, and Pallavi BUGGA (the "Assignor(s)") and WILLIAM MARSH RICE UNIVERSITY, a Texas non-profit corporation, having a place of business at 6100 Main Street, Houston, Texas 77005, US (the "Assignee").

WHEREAS, Assignor(s) has agreed to assign and transfer to Assignee, and Assignee has agreed to acquire and accept from Assignor(s), Assignor(s)'s rights in the following patent application (the "Assigned Patents"):

United States Letters Patent Serial No. 15/944,586 filed on April 3, 2018 and entitled "UNIVERSAL MICROBIAL DIAGNOSTICS USING RANDOM DNA PROBES," which claims priority to U.S. Provisional Application No. 62/480,808 filed on April 3, 2017.

NOW, THEREFORE, in consideration of the premises, mutual covenants and provisions herein contained, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, the parties hereto agree to execute this Assignment, as follows:

- 1.0 Assignment. The Assignor(s) has assigned and/or by these presents does hereby assign, transfer and convey unto Assignee, the Assignor(s)'s whole and entire right, title and interest for the United States and all other countries throughout the world (i) in and to the inventions claimed or disclosed in the Assigned Patents, including all patents granting from the Assigned Patents or any continuation, continuation-in-part, division, renewal, substitute, reexamination or reissue thereof, including any patents in the United States and in all other countries throughout the world obtained based upon a claim of priority to any said Assigned Patents as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, or other applicable law, as well as the right to claim priority to any said Assigned Patents as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law, and (ii) in and to all rights to sue for and collect damages resulting from past, present and future infringement of said patents and patent applications in (i).
- **2.0 Enjoyment.** The patents and patent applications subject to Paragraph 1 shall be held and enjoyed by Assignee, for Assignee's use and benefit, and for Assignee's legal representatives and assigns, to the full end of the term or terms for which same may be granted, as fully and entirely as the same would have been held by Assignee had this assignment and transfer not been made.
- **3.0 Authorize and Request.** Assignor(s) authorizes and requests the issuing authority to issue any and all United States and foreign patents granted on such patents and patent applications in 1.0(i) to the Assignee.
- **4.0 Warrant and Covenant.** Assignor(s) warrants and covenants that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been

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or will be made to others by the Assignor(s), and that the full right to convey the same as herein expressed is possessed by the Assignor(s).

- **5.0 Assistance.** The parties to this Assignment shall use commercially reasonable efforts to take, or cause to be taken, all actions, and to do, or cause to be done, all things, necessary or advisable to consummate the transactions contemplated by this Assignment. Without limiting the foregoing, each of Assignor(s) and Assignee shall cooperate with the other without any further consideration to execute and deliver, or use commercially reasonable efforts to cause to be executed and delivered, all documents as may reasonably be necessary to secure the vesting in Assignee of all rights assigned to Assignee by this Assignment, including without limitation any documents required to record this Assignment with local patent offices, and all rightful oaths, declarations, and other papers.
- **6.0 Binding.** The Assignment is binding on the heirs, assigns, representatives and successors of the Assignor(s) and extends to the successors, assigns and nominees of the Assignee.
- **7.0 Effectiveness.** The assignment of said inventions is or was effective as of the earlier of (1) the date of execution of the Assignor(s) indicated below or (2) the filing date of the first filed of the patent applications of the Assigned Patents.

(Signature page follows)

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IN WITNESS WHEREOF, Rebekah A. DREZEK has executed this Patent Assignment, or has caused this Patent Assignment to be executed on his/her behalf by a representative duly authorized, all as of the date set forth below.

	Rebekah A. DREZEK
	Signature: Recommend Tyre  Date: 6-26-18
TEXA is as an	Date: (-36-18)
STATE OF TOXOS COUNTY OF HAYILS	8 200
BEFORE ME, the undersigned authority, on	this day of M. 2018 personally appeared
Rebekah A. DREZEK, known to me to be the	person whose name is subscribed to the foregoing instrument
	ed the same of his/her own free will for the purposes and
consideration therein expressed.	
	O. E
ANGELA HURLEY	Notary, Consular Officer or Witness
My Notery ID # 131279365	Notary, Consular Officer or Witness
[SE DE September 14, 2021	₩
and the state of the	
	ANIUK has executed this Patent Assignment, or has caused
date set forth below.	her behalf by a representative duly authorized, all as of the
duto ser total ecrow.	Richard G. BARANIUK
	Signature:
Andrew Company Company	Date:
STATE OF	
COUNTROL	
BEFORE ME, the undersigned authority, on	this day of . 2018 personally appeared
BEFORE ME, the undersigned authority, on Richard G. BARANIUK, known to me to I	this
Richard G. BARANIUK, known to me to I instrument and acknowledged to me that he/sh	this day of, 2018 personally appeared be the person whose name is subscribed to the foregoing e executed the same of his/her own free will for the purposes
Richard G. BARANIUK, known to me to I	be the person whose name is subscribed to the foregoing
Richard G. BARANIUK, known to me to I instrument and acknowledged to me that he/sh	be the person whose name is subscribed to the foregoing
Richard G. BARANIUK, known to me to I instrument and acknowledged to me that he/sh	be the person whose name is subscribed to the foregoing
Richard G. BARANIUK, known to me to I instrument and acknowledged to me that he/sh	be the person whose name is subscribed to the foregoing e executed the same of his/her own free will for the purposes
Richard G. BARANJUK, known to me to I instrument and acknowledged to me that he/sh	be the person whose name is subscribed to the foregoing

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IN WITNESS WHEREOF, Rebekah A. DREZEK has executed this Patent Assignment, or has caused this Patent Assignment to be executed on his/her behalf by a representative duly authorized, all as of the date set forth below.

	Rebekah A. DREZEK
	Signature:
STATE OF	
Rebekah A. DREZEK, known to me to be to	is day of, 2018 personally appeared he person whose name is subscribed to the foregoing he executed the same of his/her own free will for the
	Notary, Consular Officer or Witness
[SEAC]	
	NUK has executed this Patent Assignment, or has caused or behalf by a representative duly authorized, all as of the Richard G. BARANIUK
STATE OF TEXAS COUNTY OF HEAT IS	Signature:
BEFORE ME, the undersigned authority, on the Richard G. BARANIUK, known to me to be	is
SAFAM CALLAN  SAFAM CALLAN  Nemery Public, State of Texas  Carry D. 129076186  (SEAL)	Notary, Consular Officer or Witness

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WITNESS WHEREOF, Amirali AGHAZADEH has executed this Patent Assignment, or has caused this Patent Assignment to be executed on his/her behalf by a representative duly authorized, all as of the date set forth below.

Animii AGHAZADEH

STATE OF COLLEGE	Date: 3/1/19
BEFORE ML, the undersigned authority, on this Amrali AGHAZADEH, known to the to be the instrument and acknowledged to the that he she exclude consideration therein expressed.	1) day of North 2019 personally appeared person whose name is subscribed to the foregoing souled the same of his her own free will for the purposes
PETTE VARIENBERG SERVICE CONTOURS SERVICE CONTOURS SERVICE OF SERVICE SERVICE OF SERVICE SERVICE SERVICE OF SERVICE SERVICE SERVICE OF SERVICE SERVICE SERVICE OF SERVICE SERVICE SERVICE OF SERVICE OF SERVICE OF SERVICE SERVICE SERVICE OF	otany. Consular Officer or Wifness
IN WITNESS WHEREOF, Mona SHEIK, this Patent Assignment to be executed on his/her thate set forth below.	H has executed this Patent Assignment, or has caused behalf by a representative duly authorized, all as of the
	Mona SPIETE, I
	Signature Date
STATE OF COUNTY OF	
BEFORE ME, the undersigned authority, on this Mont SHERH. Known to me to be the person who acknowledged no me that he site executed the acconsideration these in expressed.	day of 2018 personally appeared ame of higher own free will for the purposes and
	Consular Others or White
[SEAL]	

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WITNESS WHEREOF, Amirali AGHAZADEH has executed this Patent Assignment, or has caused this Patent Assignment to be executed on his/her behalf by a representative duly authorized, all as of the date set forth below.

	Amirali AGHAZADEH
	Signature:
OT STEELE	Date:
STATE OFCOUNTY OF	
COOMIT OF	
Amirali AGHAZADEH, known to me t	on thisday of, 2018 personally appeared to be the person whose name is subscribed to the foregoing e/she executed the same of his/her own free will for the purposes
(SEAL)	Notary, Consular Officer or Witness
(abAL)	
	SHEIKH has executed this Patent Assignment, or has caused his/her behalf by a representative duly authorized, all as of the
	Mona SHEIKH
	Signature: <u>Mona Shakh</u> Date: Jun e 28 2018
STATE OF <u>Colifornia</u> COUNTY OF <u>Soute</u> Clara	Date. JUN & 28 2010
Mona SHEIKH, k <del>nown to me</del> to be the pe	on this $\frac{3}{6}$ day of $\frac{3}{6}$ day of $\frac{3}{6}$ 2018 personally appeared erson whose name is subscribed to the foregoing instrument and ed the same of his her own free will for the purposes and
	MATALL
[SEAL]	Notary, Gonsular Officer or Witness
M. KAUR O COMM. # 2218580 O SONTARY PUBLIC - CALIFORNIA S SANTA CLARA COUNTY	T S G C C C C C C C C C C C C C C C C C C

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IN WITNESS WHEREOF, Adam Y. Patent Assignment to be executed on his/her set forth below.	LIN has executed this Patent Assignment, or has caused this behalf by a representative duly authorized, all as of the date
	Adam Y. LIN
	Single Klasse
	Signature: Date: 4/26/18
STATE OF ZLLIMOS COUNTY OF COOK	
COUNTY OF COOK	
Adam Y. LIN, known to me to be the person	this day of <u>Jule</u> , 2018 personally appeared whose name is subscribed to the foregoing instrument and the same of his/her own free will for the purposes and
	Andro & Ther
SANDRA L KLEIN OFFICIAL SEAL Notary Public, State of Illinois My Commission Expires February 11, 2020	Notary, Consular Officer or Witness
IN WITNESS WHEREOF, Allen L. this Patent Assignment to be executed on his date set forth below.	CHEN has executed this Patent Assignment, or has caused ther behalf by a representative duly authorized, all as of the
	Allen L. CHEN
	Signature:
	Date:
. 그 사용 :	
STATE OF	
	현 경기(1) 전기 (1) 전기 ( 
Allen L. CHEN, known to me to be the person	this day of, 2018 personally appeared n whose name is subscribed to the foregoing instrument and the same of his/her own free will for the purposes and
	Notary, Consular Officer or Witness

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IN WITNESS WHEREOF, Adam Y. LIN has executed this Patent Assignment, or has caused this Patent Assignment to be executed on his/her behalf by a representative duly authorized, all as of the date set forth below.

	Adam Y. LIN
STATE OF	Signature: Date:
COUNTY OF	,
Adam 1. Lin, known to me to be the person	this day of, 2018 personally appeared whose name is subscribed to the foregoing instrument and the same of his/her own free will for the purposes and
[SEAL]	Notary, Consular Officer or Witness
IN WITNESS WHEREOF, Allen L. of this Patent Assignment to be executed on his/l date set forth below.	CHEN has executed this Patent Assignment, or has caused her behalf by a representative duly authorized, all as of the
	Allen L. CHEN
STATE OF NOW (U)C) COUNTY OF DIGNIE CHECKE	Signature: <u>Ollen I Chen</u> Date:
BEFORE ME, the undersigned authority, on t Allen L. CHEN, known to me to be the person	his day of 2002, 2018 personally appeared whose name is subscribed to the foregoing instrument and the same of his/her own free will for the purposes and
CAROLIN X. MAMMICA NOTARY PUBLIC PRINCE GEORGE'S COUNTY MARYLAND [SEAL] MY COMMISSION (EXPIRES 11/24/2019	Notary, Consular Officer or Witness

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IN WITNESS WHEREOF, Pallavi BUGGA has executed this Patent Assignment, or has caused this Patent Assignment to be executed on his/her behalf by a representative duly authorized, all as of the date set forth below.

BEFORE ME, the undersigned authority, on this de Pallavi BUGGA known to \_\_\_, 2018 personally appeared Pallavi BUGGA, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

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ANGELA HURLEY My Notery ID # 131279385 Expires September 14, 2021

Notary, Consular Officer or Witness

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IN WITNESS WHEREOF, Assignee has executed this Patent Assignment, or has caused this Patent Assignment to be executed on its behalf by a representative duly authorized.

WILLIAMMARSH RICE UNIVERSITY

Name: Asna Rajagopal

Title: Director-OTT
Date: /- 24-19

STATE OF TEXAS COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this 24 day of Carray, 2018 personally appeared Asha Rajagopal, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Notary, Consular Officer or Witness

[SEAL]

TAMARA A ROSS
Notary ID # 2335501
My Gormonission Expires
Way 16, 2019

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**PATENT** 

REEL: 050152 FRAME: 0868