

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>			<b>Execution Date</b>
ZANE HAMMOUD			05/12/2016
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION		
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<b>City:</b>	INDIANAPOLIS		
<b>State/Country:</b>	INDIANA		
<b>Postal Code:</b>	46202		
<b>PROPERTY NUMBERS Total: 4</b>			
<b>Property Type</b>	<b>Number</b>		
<b>Application Number:</b>	61402729		
<b>Application Number:</b>	61403910		
<b>Patent Number:</b>	8653006		
<b>Application Number:</b>	14167270		
<b>CORRESPONDENCE DATA</b>			
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<b>ATTORNEY DOCKET NUMBER:</b>	2011-008-04		
<b>NAME OF SUBMITTER:</b>	TINA WILSON		
<b>SIGNATURE:</b>	/Tina Wilson/		
<b>DATE SIGNED:</b>	05/12/2016		
This document serves as an Oath/Declaration (37 CFR 1.63).			
<b>Total Attachments: 2</b>			
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source=Dec_Assign - Hammoud (executed)#page2.tif			

## COMBINED DECLARATION AND ASSIGNMENT

### DECLARATION

Whereas, I, **Zane Hammoud** (INVENTOR), hereby declare that this Declaration is directed toward the attached US or Int'l Patent Application No. 14/167,270; filed January 29, 2014.

The above-identified patent application was made or authorized to be made by me.

I believe that I am an original inventor or an original joint inventor of the subject matter that is claimed in the patent application.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

### ASSIGNMENT

Whereas, I, **Zane Hammoud** (ASSIGNOR), have an interest in an invention entitled: Metabolite Biomarkers for the Detection of Esophageal Cancer Using NMR, which is the subject of a US Patent Application that names the undersigned as an inventor in:

- ☒ US Provisional Patent Application No. 61/402,729; filed September 03, 2010; and
- ☒ US Provisional Patent Application No. 61/403,910; filed September 23, 2010; and
- ☒ US Patent No. 8,653,006, issued February 18, 2014; and
- ☒ US Continuation Patent Application No. 14/167,270; filed January 29, 2014.

**Indiana University Research and Technology Corporation**, an Indiana corporation having its principal office at 351 West 10<sup>th</sup> Street, Indianapolis, IN 46202 (ASSIGNEE), desires to acquire ASSIGNOR'S interest in the invention.

ASSIGNOR acknowledges receipt and adequacy of good and valuable consideration in exchange for this Assignment and hereby assigns to ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in the patent applications and/or patents listed above, in the United States and all foreign countries, including the right to all continuations, continuation-in-part, divisions, inter partes reviews, post-grant reviews, reexaminations, reissues, supplemental examinations, substitutes and extensions thereof, as well as to claim priority under the laws of the United States, the Paris Convention, the Patent Cooperation Treaty and any foreign countries, for the full term of the patent, the same as if held by ASSIGNOR had this assignment not been made. This assignment includes the assignment of the right to recover for past infringements of, or liabilities for, any of the rights related to the applications or patents resulting from the invention.

ASSIGNOR covenants and agrees to cooperate with ASSIGNEE and execute all instruments or documents requested for the making and prosecuting of any applications of any type for patent in the United States and in all foreign countries including, but not limited to the following: provisional, continuation, continuation-in-part, divisional, inter-partes review, post-grant review, renewal, reissue, re-examination, substitutes or extension. ASSIGNOR covenants and agrees to cooperate with ASSIGNEE in any interference, post-grant opposition or litigation regarding the invention, patents or applications regarding the invention, including testifying for the benefit of ASSIGNEE without further or other compensation than that provided in this Assignment.

ASSIGNOR covenants that no assignment, sale or agreement or encumbrance has been or will be entered into that would conflict with this Assignment.

ASSIGNOR requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to ASSIGNEE, and requests that any official of a patent office in any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications, issue said Letters Patent, Utility Model Registration or Inventor's Certificate to ASSIGNEE.

ASSIGNOR grants the ASSIGNEE and/or attorney of record a power to insert on this Assignment any further identification that may be necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

IN WITNESS WHEREOF, ASSIGNOR executed this Assignment at DETROIT MI this 12 day of MAY, 2016.  
(City, State or Country, if outside US)

  
**Zane Hammoud**  
INVENTOR/ASSIGNOR

ACKNOWLEDGEMENT

On this 12 day of May, 2016, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth. Or please sign in the presence of two witnesses when acknowledgement before a notary public is not feasible.

Notary Public \_\_\_\_\_  
Printed Name \_\_\_\_\_  
County of \_\_\_\_\_  
State of \_\_\_\_\_  
My Commission Expires \_\_\_\_\_

  
WITNESS

  
WITNESS