

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	NUNC PRO TUNC ASSIGNMENT
<b>EFFECTIVE DATE:</b>	03/23/2016
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATEUSZ HUPERT	10/05/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
<b>Street Address:</b>	109 CHURCH STREET
<b>City:</b>	CHAPEL HILL
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27516
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16513947
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(919)854-1401
<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>	
<b>Phone:</b>	919-854-1400
<b>Email:</b>	MSPINELLI@MYERSBIGEL.COM
<b>Correspondent Name:</b>	MYERS BIGEL, P.A.
<b>Address Line 1:</b>	4140 PARKLAKE AVENUE
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	RALEIGH, NORTH CAROLINA 27612
<b>ATTORNEY DOCKET NUMBER:</b>	5470-820DV
<b>NAME OF SUBMITTER:</b>	JULIE H. RICHARDSON
<b>SIGNATURE:</b>	/Julie H. Richardson/
<b>DATE SIGNED:</b>	07/17/2019
<b>Total Attachments: 2</b>	
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**NUNC PRO TUNC ASSIGNMENT**

THIS ASSIGNMENT, made by me, **Mateusz Hupert**, a citizen of the United States of America;

WITNESSETH: That,

WHEREAS, I am a joint inventor of certain new and useful improvements in inventions described in **UNIVERSAL MOLECULAR PROCESSOR FOR PRECISION MEDICINE** for which International Patent Application No.: PCT/US2016/023769 was filed on March 23, 2016; and for which U.S. Patent Application No.: 15/560,028 was filed on September 20, 2017 in the United States Patent and Trademark Office;

WHEREAS, **The University of North Carolina at Chapel Hill**, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina, having a principal place of business at 109 Church Street, Chapel Hill, North Carolina 27516, hereinafter referred to as assignee, was my employer at the time of my contributions to the invention and the patent applications, and at least through my employment obligations to the assignee owns my rights to the invention and the patent applications and is desirous of confirming its ownership;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged *nunc pro tunc*, I have sold and by these presents do hereby confirm that I have sold or do sell, assign, transfer, and convey unto the said assignee, its successors and assigns, my entire right, title, and interest in and to the said invention and applications, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said applications in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

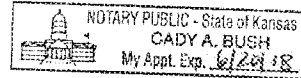
I hereby request that said Letters Patent be issued in accordance with this assignment.

I further covenant and agree that, at the time of the execution and delivery of these presents, and to the extent that I have not already assigned my rights to the assignee, I have the unencumbered right and authority to make this assignment.

I further covenant and agree to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and I hereby instruct, and further covenant and agree to bind my heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 5 day of OCTOBER, 2017

Mateusz Hupert (SEAL)  
Mateusz Hupert



STATE OF KANSAS )  
COUNTY OF DOUGLAS ) ss:

Before me personally appeared the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same for the purposes therein stated, this 5<sup>th</sup> day of OCTOBER, 2017

SEAL Cady A. Bush  
Notary Public

My Commission Expires: 6/20/18