

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5031647

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HARLAN S. ROBINS	03/16/2011
EDUS H. WARREN III	11/12/2010
CHRISTOPHER SCOTT CARLSON	03/07/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FRED HUTCHINSON CANCER RESEARCH CENTER
<b>Street Address:</b>	DIVISION OF BASIC SCIENCES, MAIL STOP A3-100
<b>Internal Address:</b>	P.O. BOX 190
<b>City:</b>	SEATTLE
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98109
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16023010
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)842-7899
<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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<b>Email:</b>	zIPPatentDocketingMailboxUS@cooley.com
<b>Correspondent Name:</b>	COOLEY LLP / ADAPTIVE BIOTECHNOLOGIES
<b>Address Line 1:</b>	ATTN: PATENT GROUP
<b>Address Line 2:</b>	1299 PENNSYLVANIA AVENUE, NW, SUITE 700
<b>Address Line 4:</b>	WASHINGTON, D.C. 20004
<b>ATTORNEY DOCKET NUMBER:</b>	ADBS-006/11US 323310-2583
<b>NAME OF SUBMITTER:</b>	ALLA BRUKMAN
<b>SIGNATURE:</b>	/Alla Brukman/
<b>DATE SIGNED:</b>	06/29/2018
<b>Total Attachments: 6</b>	
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**ASSIGNMENT**

WHEREAS, I, **Harlan S. Robins**, citizen of the **United States**, residing at **4418 Latona Avenue Northeast, Seattle, Washington 98105**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **HTCH-0107** ("the invention"), which is entitled **METHOD OF MEASURING ADAPTIVE IMMUNITY** ("the subject application"), and which claims priority to patent application number **61/220,344** filed **June 25, 2009** ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment as soon as the same shall have been made known to them.

AND WHEREAS, **Fred Hutchinson Cancer Research Center**, ASSIGNEE, having a place of business at **1100 Fairview Avenue North, Seattle, Washington 98109**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: HTCH-0107

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 16 day of March, year of 2011.

  
Signature

\*\*\*\*\*

The foregoing assignment covers patent application number 12/794,507, filed on June 4, 2010.

*/Peter J. Knudsen/*

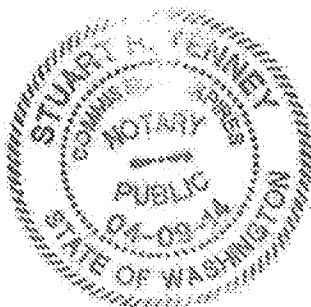
Name of Attorney: Peter J. Knudsen  
Registration No. 40,682  
Date of Insertion July 28, 2010

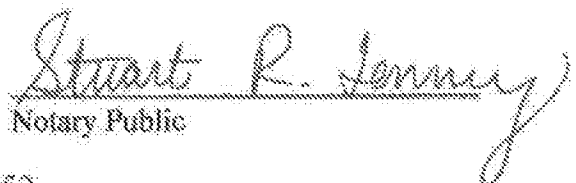
STATEMENT OF NOTARY PUBLIC

STATE OF Washington :  
: SS

COUNTY OF King :

On this 16<sup>th</sup> day of March, year of 2010, before me personally came the above named Hartan S. Robins to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



  
Notary Public

**ASSIGNMENT**

WHEREAS, I, **Edus H. Warren III**, citizen of the United States, residing at **10770 Northeast Broomgerrie Road, Bainbridge Island, Washington 98110**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **HTCH-0107** ("the invention"), which is entitled **METHOD OF MEASURING ADAPTIVE IMMUNITY** ("the subject application"), and which claims priority to patent application number **61/220,344** filed **June 25, 2009** ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment as soon as the same shall have been made known to them.

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming



**ASSIGNMENT**

WHEREAS, I, **Christopher Scott Carlson**, citizen of the United States, residing at **5125 107<sup>th</sup> Avenue Northeast, Kirkland, Washington 98033**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **HTCH-0107** ("the invention"), which is entitled **METHOD OF MEASURING ADAPTIVE IMMUNITY** ("the subject application"), and which claims priority to patent application number **61/220,344** filed **June 25, 2009** ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment as soon as the same shall have been made known to them.

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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