

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT5982659

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RAMNIK XAVIER	09/17/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE BROAD INSTITUTE, INC.
<b>Street Address:</b>	415 MAIN STREET
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02142
<b>Name:</b>	THE GENERAL HOSPITAL CORPORATION
<b>Street Address:</b>	55 FRUIT STREET
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02114
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16632018
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(240)359-4879
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<b>Correspondent Name:</b>	F. BRENT NIX, ESQ.
<b>Address Line 1:</b>	JOHNSON, MARCOU & ISAACS, LLC
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<b>ATTORNEY DOCKET NUMBER:</b>	BROD-2203US
<b>NAME OF SUBMITTER:</b>	SUSAN FRATTURA
<b>SIGNATURE:</b>	/Susan Frattura/
<b>DATE SIGNED:</b>	02/26/2020

**Total Attachments: 3**

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## ASSIGNMENT

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WHEREAS, I, **RAMNIK XAVIER**, having a correspondence address of c/o 415 Main Street, Cambridge, Massachusetts 02142, have invented with others certain inventions and improvements disclosed in PCT International Patent Application entitled "**CELL ATLAS OF THE HEALTHY AND ULCERATIVE COLITIS HUMAN COLON**," filed in the United States Patent and Trademark Office as Receiving Office on July 17, 2018 and assigned PCT International Application No. PCT/US2018/042554; and

WHEREAS, **THE BROAD INSTITUTE, INC.**, having a principal place of business at 415 Main Street, Cambridge, Massachusetts 02142, and **THE GENERAL HOSPITAL CORPORATION**, having a principal place of business at 55 Fruit Street, Boston, Massachusetts 02114, is desirous of acquiring an interest in the same; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which I hereby acknowledge, I, **RAMNIK XAVIER**, by these presents, do sell, assign, and transfer unto said Assignees, **THE BROAD INSTITUTE, INC.** and **THE GENERAL HOSPITAL CORPORATION**, my full, exclusive, and entire right, title, and interest in and to said application, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said application, or from a division, continuation, reexamination, or reissue thereof, to **THE BROAD INSTITUTE, INC.** and **THE GENERAL HOSPITAL CORPORATION**, for their interest and for the use and benefit of **THE BROAD INSTITUTE, INC.** and **THE GENERAL HOSPITAL CORPORATION**, as assignees, and their assigns and legal representatives;

For the same consideration, I, by these presents, do hereby sell, assign, and transfer to **THE BROAD INSTITUTE, INC.** and **THE GENERAL HOSPITAL CORPORATION**, my full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said applications, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said

foreign applications to be filed and issued in the name of **THE BROAD INSTITUTE, INC.** and **THE GENERAL HOSPITAL CORPORATION**, or its designees insofar as permitted by applicable law;

AND, for the same consideration, I hereby agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **THE BROAD INSTITUTE, INC.** and **THE GENERAL HOSPITAL CORPORATION**, their successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

In testimony whereof, I hereunto set my hand and seal on the date indicated below.

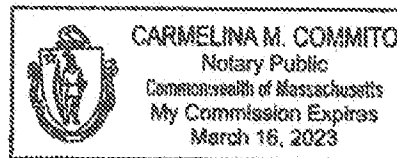
Ramnik Xavier 9/17/18  
RAMNIK XAVIER Date

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

Before me, a Notary Public in and for the aforementioned state, on this 17<sup>th</sup>  
day of September, 2018 personally appeared **RAMNIK XAVIER**, who, being duly  
sworn, signed and acknowledged the foregoing Assignment.

Carmelina M. Commito  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_



[END OF SIGNATURE PAGE]