

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4008796

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Ravi Thadhani	04/19/2016
Ishir Bhan	04/12/2016
RECEIVING PARTY DATA	
Name:	The General Hospital Corporation
Street Address:	55 Fruit Street
City:	Boston
State/Country:	MASSACHUSETTS
Postal Code:	02114
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14888765
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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>	
Phone:	(617) 542-5070
Email:	apsi@fr.com
Correspondent Name:	SHERWIN Y. CHAN
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	00786-0892US1
NAME OF SUBMITTER:	CHRISTINE M. GRACE
SIGNATURE:	/Christine M. Grace/
DATE SIGNED:	08/16/2016
Total Attachments: 5	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, RAVI THADHANI and ISHIR BHAN, each individually assign to THE GENERAL HOSPITAL CORPORATION, a corporation formed under the laws of Massachusetts and having a principal place of business at 55 Fruit Street, Boston, MA 02114, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "ASSAYS AND METHODS OF TREATMENT RELATING TO VITAMIN D INSUFFICIENCY," and was filed in the United States Patent and Trademark Office on November 3, 2015, as application 14/888,765 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

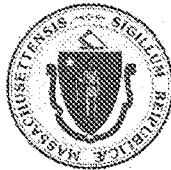
We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

[Signature] DATE: 4/19/16
Ravi Thadhani

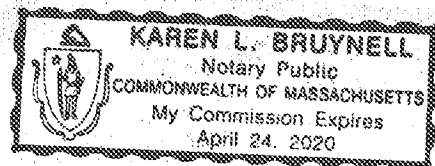
The Commonwealth of Massachusetts

Massachusetts, Suffolk County ss.



On this 19 day of April, 2016, before me, the undersigned notary public, personally appeared Ravi Thadhani, proved to me through satisfactory evidence of identification, which were United States Passport, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

[Signature]
Notary Public



[Handwritten signature]

Ishir Bhan

DATE: 4/2/2016

The Commonwealth of Massachusetts

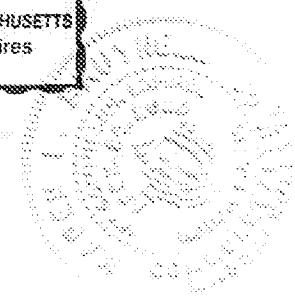
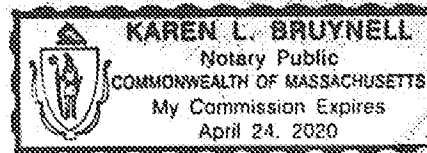
Massachusetts, Suffolk ss.
County



On this 12th day of April, 2016, before me, the undersigned notary public, personally appeared Ishir Bhan, proved to me through satisfactory evidence of identification, which were Massachusetts drivers license, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

[Handwritten signature of Karen L. Bruynell]

Notary Public



ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, RAVI THADHANI and ISHIR BHAN, each individually assign to THE GENERAL HOSPITAL CORPORATION, a corporation formed under the laws of Massachusetts and having a principal place of business at 55 Fruit Street, Boston, MA 02114, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "ASSAYS AND METHODS OF TREATMENT RELATING TO VITAMIN D INSUFFICIENCY," and was filed in the United States Patent and Trademark Office on November 3, 2015, as application 14/888,765 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE GENERAL HOSPITAL CORPORATION

Signature: B Tedeschi Date: 4/21/16

Name: Bruce Tedeschi **Bruce W. Tedeschi, PhD, JD**
Director, Innovation

Title: DIRECTOR of IP **The General Hospital Corporation**

The Commonwealth of Massachusetts

Duffolk ss.



On this 21st day of April, 2016, before me, the undersigned notary public, personally appeared Bruce Tedeschi, proved to me through satisfactory evidence of identification, which were RI Drivers License, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that HE signed it voluntarily for its stated purpose.

[Signature]
Notary Public

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