

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4462548

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
J. Keith Joung	01/19/2017
Shengdar Tsai	12/30/2016
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:	15282800
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NAME OF SUBMITTER:	CHRISTINE M. GRACE
SIGNATURE:	/Christine M. Grace/
DATE SIGNED:	06/15/2017
Total Attachments: 4	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, J. KEITH JOUNG, and SHENG DAR TSAI, 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 "COMPREHENSIVE IN VITRO REPORTING OF CLEAVAGE EVENTS BY SEQUENCING (CIRCLE-SEQ)," and was filed in the United States Patent and Trademark Office on September 30, 2016, as application 15/282,800 (the "Application").

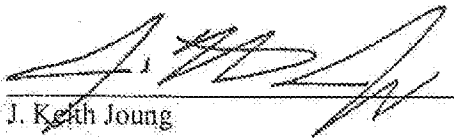
This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country 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.

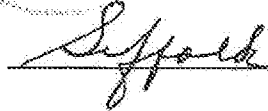
We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

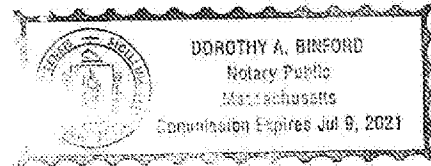
documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.


J. Keith Joung

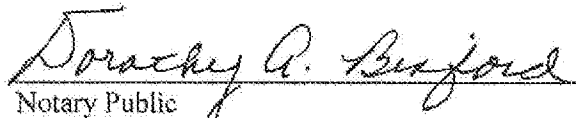
DATE: 1/19/17

The Commonwealth of Massachusetts

 ss.



On this 19th day of January, 2017, before me, the undersigned notary public, personally appeared J. KEITH JOUNG, proved to me through satisfactory evidence of identification, which were MGH ID, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that JKJ signed it voluntarily for its stated purpose.


Notary Public

Shengdar Tsai

Shengdar Tsai

DATE: 12/30/16

The Commonwealth of Massachusetts



SS.

On this 30th day of December, 2016, before me, the undersigned notary public, personally appeared Shengdar Tsai, proved to me through satisfactory evidence of identification, which were driver 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.

Patricia Streich

Notary Public



The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE GENERAL HOSPITAL CORPORATION

Signature: B Tedeschi Date: 8/19/17

Name: Bruce W. Tedeschi, PhD, JD

Title: Director, Innovation
The General Hospital Corporation

The Commonwealth of Massachusetts

Middlesex ss.



On this 19th day of May, 2017 before me, the undersigned notary public, personally appeared Bruce W. Tedeschi, proved to me through satisfactory evidence of identification, which were 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.

Anthony W. Sutton
Notary Public

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