

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3813053

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
J. Keith Joung	11/03/2015
James Angstman	11/06/2015
Jeffry D. Sander	11/20/2015
Morgan Maeder	10/27/2015
Shengdar Tsai	11/03/2015
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:	14776620
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:	JANICE K. DEYOUNG
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	40174-0009US1
NAME OF SUBMITTER:	CHRISTINE M. GRACE
SIGNATURE:	/Christine M. Grace/
DATE SIGNED:	04/03/2016
Total Attachments: 16	

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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, J. KEITH JOUNG, JAMES ANGSTMAN, JEFFRY D. SANDER, MORGAN MAEDER, and SHENGDAR 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 "INCREASING SPECIFICITY FOR RNA-GUIDED GENOME EDITING", and was filed in the United States Patent and Trademark Office on September 14, 2015, as application 14/776,620 (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]
J. Keith Joung DATE: 11/3/15

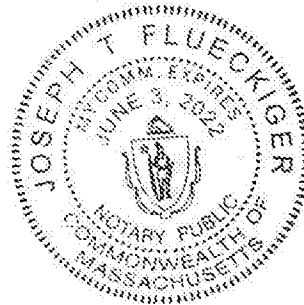
The Commonwealth of Massachusetts

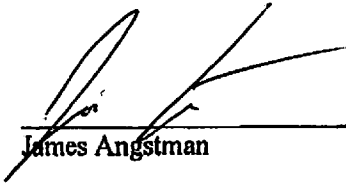
Norfolk, MA ss.



On this 3 day of November, 2015, before me, the undersigned notary public, personally appeared J. Keith Joung, proved to me through satisfactory evidence of identification, which were MA D.L. S95797383, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that Joung signed it voluntarily for its stated purpose.

[Signature]
Notary Public




James Angstman

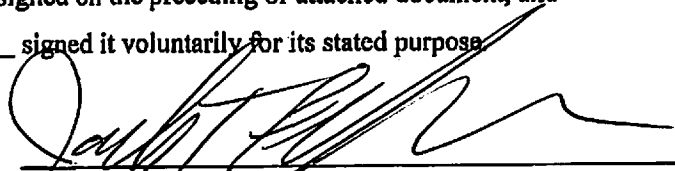
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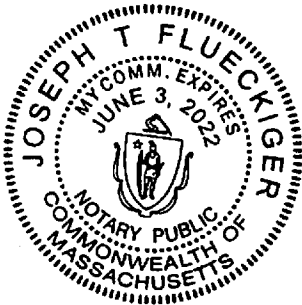
The Commonwealth of Massachusetts

Norfolk ss.



On this 6 day of November, 2015, before me, the undersigned notary public, personally appeared Joseph T. Flueckiger, proved to me through satisfactory evidence of identification, which were MA DL # S 78081316, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that James signed it voluntarily for its stated purpose


Notary Public
Expires 6/3/2015



Jeffrey D. Sander

DATE: _____

The Commonwealth of Massachusetts



_____ ss.

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

Notary Public

Morgan Maeder
Morgan Maeder

DATE: 10/27/15

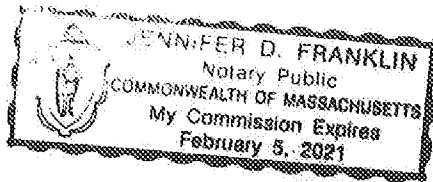
The Commonwealth of Massachusetts

Middlesex ss.



On this 27 day of October, 2015, before me, the undersigned notary public, personally appeared Morgan Maeder, proved to me through satisfactory evidence of identification, which were license, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that Morgan signed it voluntarily for its stated purpose.

Jennifer D. Franklin
Notary Public



Shengdar Tsai
Shengdar Tsai

DATE: 11/3/2015

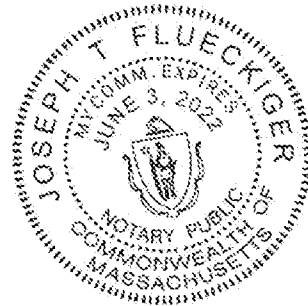
The Commonwealth of Massachusetts

Norfolk, MA ss.



On this 3 day of November, 2015, before me, the undersigned notary public, personally appeared Shengdar Tsai, proved to me through satisfactory evidence of identification, which were M.A.D.L. # 565358801, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that Tsai signed it voluntarily for its stated purpose.

[Signature]
Notary Public



The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE GENERAL HOSPITAL CORPORATION

Signature: _____ Date: _____

Name: _____

Title: _____

The Commonwealth of Massachusetts

_____ ss.



On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

Notary Public

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, J. KEITH JOUNG, JAMES ANGSTMAN, JEFFRY D. SANDER, MORGAN MAEDER, and SHENGDAR 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 "INCREASING SPECIFICITY FOR RNA-GUIDED GENOME EDITING", and was filed in the United States Patent and Trademark Office on September 14, 2015, as application 14/776,620 (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.

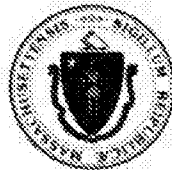
We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

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.

DATE: _____
J. Keith Joung

The Commonwealth of Massachusetts



_____ ss.

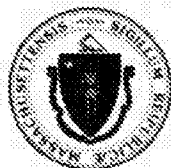
On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

Notary Public

DATE: _____

James Angstman

The Commonwealth of Massachusetts



_____ ss.

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

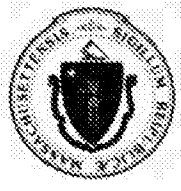
Notary Public

Jeffrey D. Sander
Jeffrey D. Sander

DATE: 11/20/2015

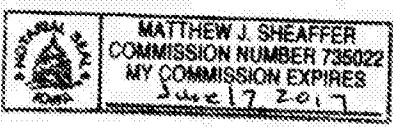
The Commonwealth of Massachusetts

Polk City
Iowa ss.



On this 20 day of November, 2015, before me, the undersigned notary public, personally appeared Jeffrey D. Sander, 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.

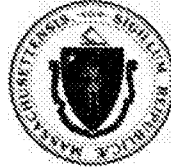
Matthew J. Sheaffer
Notary Public



Morgan Maeder

DATE: _____

The Commonwealth of Massachusetts



ss.

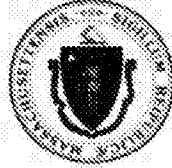
On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

Notary Public

DATE: _____

Shengdar Tsai

The Commonwealth of Massachusetts



_____ ss.

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

Notary Public

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE GENERAL HOSPITAL CORPORATION

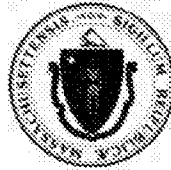
Signature: _____

Date: _____

Name: _____

Title: _____

The Commonwealth of Massachusetts



_____ ss.

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that _____ signed it voluntarily for its stated purpose.

Notary Public

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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, J. KEITH JOUNG, JAMES ANGSTMAN, JEFFRY D. SANDER, MORGAN MAEDER, and SHENGDAR 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 "INCREASING SPECIFICITY FOR RNA-GUIDED GENOME EDITING", and was filed in the United States Patent and Trademark Office on September 14, 2015, as application 14/776,620 (the "Application").

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The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE GENERAL HOSPITAL CORPORATION

Signature: Matthew Flinders

Date: 2/18/2016

Name: Matthew Flinders

Title: Senior IP Manager

The Commonwealth of Massachusetts

Suffolk ss.



On this 18th day of February, 2016, before me, the undersigned notary public, personally appeared Matthew Flinders, proved to me through satisfactory evidence of identification, which were MA Driver's 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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