

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4360500

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
J. Keith Joung	04/17/2014
Jeffry D. Sander	04/18/2014
Morgan Maeder	04/11/2014
Yanfeng Fu	04/17/2016
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:	15430218
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) 956-5925
Email:	apsi@fr.com
Correspondent Name:	JASMINE DECOCK
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	40174-0007002
NAME OF SUBMITTER:	CHRISTINE M. GRACE
SIGNATURE:	/Christine M. Grace/
DATE SIGNED:	04/10/2017
Total Attachments: 10	
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, J. Keith Joung, of Winchester, Massachusetts; Jeffry D. Sander, of Ames, Iowa; Morgan Maeder, of Brookline, Massachusetts; and Yanfang Fu, of Malden, Massachusetts, hereby assign to: THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business 55 Fruit Street, Boston, Massachusetts 02114; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of and described and/or claimed in a utility application for United States Patent, entitled "USING TRUNCATED GUIDE RNAS (TRU-GRNAS) TO INCREASE SPECIFICITY FOR RNA-GUIDED GENOME EDITING," filed on March 14, 2014, and assigned U.S. Serial Number 14/213,723; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

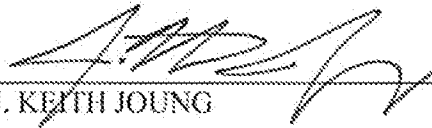
we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

we hereby covenant that we have the full right to convey the entire right, title, and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

DATE:

4/17/14

J. KEITH JOUNG



IN WITNESS WHEREOF, I hereto set my hand and seal at Mass General Hospital
this 17th day of April, 20 14

State of MA :

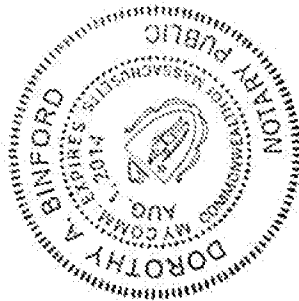
: ss.

County of SUFFOLK :

Before me this 17th day of April, 20 14, personally
appeared J. KEITH JOUNG known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act
and deed for the purposes therein contained.

Dorothy A. Binford
Notary Public

My Commission Expires: 8-1-2014



DATE:

4/18/2014

Jeffery D. Sander
JEFFERY D. SANDER

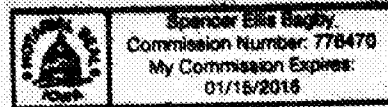
IN WITNESS WHEREOF, I hereto set my hand and seal at 2:54pm
this 18th day of April, 2014

State of Iowa :
County of Polk : ss.

Before me this 18th day of April, 2014, personally
appeared Jeffery Sander known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act
and deed for the purposes therein contained.

Spencer Ellis Bagby
Notary Public

My Commission Expires: 01-15-2016



DATE: _____
MORGAN MAEDER

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 20____

State of _____ :
: ss.
County of _____ :

Before me this _____ day of _____, 20____, personally
appeared _____ known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act
and deed for the purposes therein contained.

Notary Public

My Commission Expires:

ASSIGNMENT

MLM
4/10/14

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, J. Keith Joung, of Winchester, Massachusetts; Jeffry D. Sander, of Ames, Iowa; Morgan Maeder, of ^{Jamaica Plain}~~Brookline~~, Massachusetts; and Yanfang Fu, of Malden, Massachusetts, hereby assign to: THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business 55 Fruit Street, Boston, Massachusetts 02114; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of and described and/or claimed in a utility application for United States Patent, entitled "USING TRUNCATED GUIDE RNAS (TRU-GRNAS) TO INCREASE SPECIFICITY FOR RNA-GUIDED GENOME EDITING," filed on March 14, 2014, and assigned U.S. Serial Number 14/213,723; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

we hereby covenant that we have the full right to convey the entire right, title, and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

DATE: _____

J. KEITH JOUNG

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 20____

State of _____ :
County of _____ : ss.

Before me this _____ day of _____, 20_____, personally appeared _____ known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act and deed for the purposes therein contained.

Notary Public

My Commission Expires: _____

DATE: _____
JEFFRY D. SANDER

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 20_____

State of _____ :
: ss.
County of _____ :

Before me this _____ day of _____, 20_____, personally
appeared _____ known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act
and deed for the purposes therein contained.

Notary Public

My Commission Expires:

DATE: 4/11/14

MORGAN MAEDER

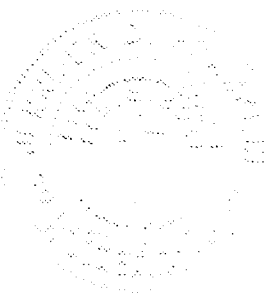
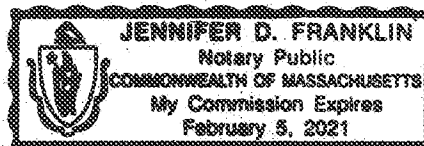
IN WITNESS WHEREOF, I hereto set my hand and seal at Editas Medicine,
this 11 day of April, 2014

State of MA :
: SS.
County of Middlesex :

Before me this 11 day of April, 2014, personally
appeared Morgan Maeder known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act
and deed for the purposes therein contained.

Jennifer D. Franklin
Notary Public Jennifer D. Franklin

My Commission Expires: 2-5-2021



DATE: _____
YANFANG FU

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 20 _____

State of _____ :
: ss.
County of _____ :

Before me this _____ day of _____, 20_____, personally
appeared _____ known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that she/he executed the same as her/his free act
and deed for the purposes therein contained.

Notary Public

My Commission Expires: