

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6613023

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GUANGPING GAO	07/03/2012
PHILLIP D. ZAMORE	07/11/2012
HOWARD HUGHES MEDICAL INSTITUTE	07/11/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNIVERSITY OF MASSACHUSETTS
<b>Street Address:</b>	ONE BEACON STREET
<b>Internal Address:</b>	31ST FLOOR
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02108
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17130084
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)646-8646
<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>	
<b>Phone:</b>	6176468000
<b>Email:</b>	Kevin.MacDonald@WolfGreenfield.com, MELISSA.SIMPSON@WOLFGREENFIELD.COM
<b>Correspondent Name:</b>	KEVIN MACDONALD
<b>Address Line 1:</b>	WOLF GREENFIELD & SACKS PC
<b>Address Line 2:</b>	600 ATLANTIC AVENUE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	U0120.70045US05
<b>NAME OF SUBMITTER:</b>	MELISSA SIMPSON
<b>SIGNATURE:</b>	/Melissa Simpson/
<b>DATE SIGNED:</b>	03/22/2021
<b>Total Attachments: 5</b>	
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**PATENT**

**REEL: 055663 FRAME: 0824**

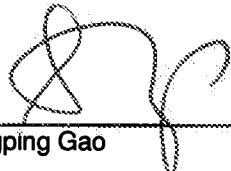
## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **University of Massachusetts**, having a place of business at **225 Franklin Street; Boston, Massachusetts 02110**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **January 12, 2010** under No. **12/686,097**, bearing Attorney Docket No. **U0120.70045US00**, and entitled **ISOLATION OF NOVEL AAV'S AND USES THEREOF**, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

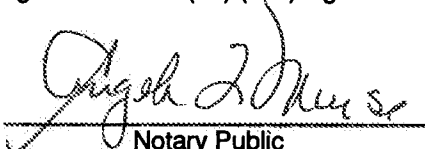
7/3/2012  
Date

  
Inventor: Guangping Gao  
Address: 4 Edward Dunn Way  
Westborough, Massachusetts 01581  
Citizenship: US

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF WORCESTER :

On this 3rd day of July, 2012, before me, the undersigned notary public,  
personally appeared Guangping Gao, proved to me through satisfactory evidence of  
identification, which were Mass Driver's License,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

  
Notary Public

My commission expires: ANGELA F. MUISE  
Notary Public  
My Commission Expires:  
February 09, 2018

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **University of Massachusetts**, having a place of business at **225 Franklin Street; Boston, Massachusetts 02110**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on **January 12, 2010** under No. **12/686,097**, bearing Attorney Docket No. **U0120.70045US00**, and entitled **ISOLATION OF NOVEL AAV'S AND USES THEREOF**, for and related to the **Subject Property** entitled **ISOLATION OF NOVEL AAV'S AND USES THEREOF**, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

7/11/12

Inventor: Phillip D. Zamore

for himself and as agent for  
Howard Hughes Medical Institute

Address: 500 Green Street

Northborough, MA 01532

Citizenship: US

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Worcester:

On this 11 day of July, 2012, before me, the undersigned notary public,  
personally appeared Phillip D. Zamore, proved to me through satisfactory evidence of  
identification, which were driver's license,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Karen P. Walsh  
Notary Public

My commission expires:

4/20/18

APPOINTMENT OF INVESTIGATOR AS AGENT

Appointment by the Howard Hughes Medical Institute ("HHMI") of Phillip David Zamore, PhD, an employee of HHMI, as its agent for the purpose of assigning certain rights to University of Massachusetts ("Institution").

WHEREAS, HHMI and Institution collaborate in the active conduct of medical research pursuant to an Agreement between them dated as of November 16, 1990 (the "Agreement");

WHEREAS, pursuant to the Agreement, HHMI has agreed to assign to Institution HHMI's rights with respect to inventions, discoveries, improvements, and other intellectual property, whether patentable or copyrightable (each a "Subject Property"), conceived or reduced to practice in the course of the research program conducted under the Agreement by employees of HHMI;

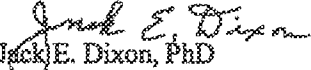
WHEREAS, research conducted pursuant to the Agreement by Phillip David Zamore, PhD while employed by HHMI at Institution has resulted in the invention of a certain Subject Property entitled "Isolation of Novel AAV's and Uses Thereof," which is the subject of a patent application entitled "Isolation of Novel AAV's and Uses Thereof" filed in the U.S. Patent and Trademark Office on January 12, 2010 with Serial Number 12/686,097 (the "Invention"), and the Invention is a Subject Property; and

WHEREAS, HHMI wishes Phillip David Zamore, PhD to act as its agent for the purpose of assigning to Institution the rights HHMI has in the Invention by reason of the research program conducted at Institution.

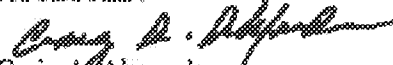
NOW THEREFORE, HHMI hereby appoints Phillip David Zamore, PhD as its agent for the purpose of assigning the rights HHMI has or may acquire in the Invention by reason of the research program conducted at Institution to Institution in accordance with and subject to the conditions of the Agreement.

Executed: October 6, 2010

HOWARD HUGHES MEDICAL INSTITUTE

By:   
Jack E. Dixon, PhD  
Vice President and Chief Scientific Officer

ATTESTED:

  
Craig A. Alexander  
Vice President and General Counsel

UMMC 08-55/08-56  
HHMI 04646