

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Robert Martuza</td><td>03/16/2011</td></tr><tr><td>Samuel Rabkin</td><td>03/24/2011</td></tr><tr><td>Hiroaki Wakimoto</td><td>03/24/2011</td></tr><tr><td>Ryuichi Kanai</td><td>03/30/2011</td></tr></tbody></table>		Name	Execution Date	Robert Martuza	03/16/2011	Samuel Rabkin	03/24/2011	Hiroaki Wakimoto	03/24/2011	Ryuichi Kanai	03/30/2011
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<table border="1"><tr><td>Name:</td><td>The General Hospital Corporation d/b/a Massachusetts General Hospital</td></tr><tr><td>Street Address:</td><td>55 Fruit Street</td></tr><tr><td>City:</td><td>Boston</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02114</td></tr></table>		Name:	The General Hospital Corporation d/b/a Massachusetts General Hospital	Street Address:	55 Fruit Street	City:	Boston	State/Country:	MASSACHUSETTS	Postal Code:	02114
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: (617)646-8646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 6176468000											
Email: patents_JohnV@wolfgreenfield.com											
Correspondent Name: Wolf Greenfield & Sacks, P.C.											
Address Line 1: 600 Atlantic Avenue											
Address Line 4: Boston, MASSACHUSETTS 02210											
ATTORNEY DOCKET NUMBER:	M0765.70104US01										
NAME OF SUBMITTER:	John R. Van Amsterdam										
Total Attachments: 5 source=M0765.70104US01 Assignment#page1.tif source=M0765.70104US01 Assignment#page2.tif source=M0765.70104US01 Assignment#page3.tif source=M0765.70104US01 Assignment#page4.tif source=M0765.70104US01 Assignment#page5.tif											

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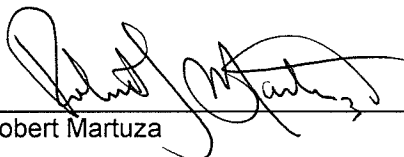
ASSIGNMENT

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

1. Sell, assign and transfer to The General Hospital Corporation d/b/a Massachusetts General Hospital, a Massachusetts non-profit corporation having a place of business at 55 Fruit Street; Boston, Massachusetts 02114, 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 November 29, 2010 under No. 12/994,960, bearing Attorney Docket No. M0765.70104US01, and entitled USE OF ONCOLYTIC HERPES VIRUSES FOR KILLING CANCER STEM CELLS, and in and to the application and all corresponding 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, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
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 and non-US patent authorities 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.

3-16-11
Date


Inventor: Robert Martuza
Address: 246 Ocean Avenue
Marblehead, MA 01945
Citizenship: US

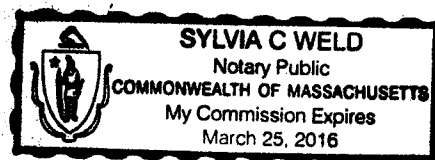
COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Suffolk:

On this 16th day of March, 2011, before me, the undersigned notary public, personally appeared Robert Martuza, proved to me through satisfactory evidence of identification, which were personal knowledge of identity of signer 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

Sylvia C. Weld
Notary Public

My commission expires: 03/25/2016



Date 3/24/16

Inventor:  Samuel Rabkin

Address: 29 Outlook Road
Swampscott, MA 01907

Citizenship: Canada

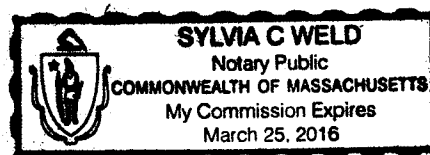
COMMONWEALTH OF MASSACHUSETTS
COUNTY OF suffolk:

On this 24th day of march, 2016, before me, the undersigned notary public, personally appeared Samuel Rabkin, proved to me through satisfactory evidence of identification, which were personal knowledge of identity of signer 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: 3/25/2016



March 24, 2011
Date

Hiroaki Wakimoto
Inventor: Hiroaki Wakimoto
Address: 141 Clark Street
Newton, MA 02459
Citizenship: Japan

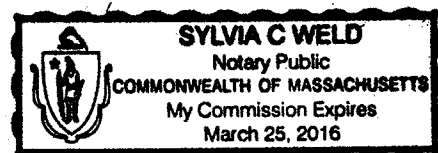
COMMONWEALTH OF MASSACHUSETTS
COUNTY OF suffolk :

On this 24th day of March, 2011, before me, the undersigned notary public, personally appeared Hiroaki Wakimoto, proved to me through satisfactory evidence of identification, which were personal knowledge of identity of signer 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

Sylvia C Weld
Notary Public

My commission expires: 3/25/2016

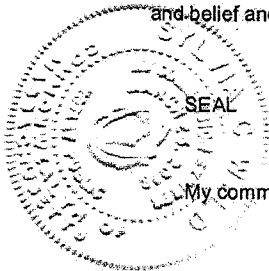


3/30/2011
Date

Ryuichi Kanai
Inventor: Ryuichi Kanai
Address: 60 Longwood Avenue, #803
Brookline, MA 02446
Citizenship: Japan

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Suffolk:

On this 30 day of March, 2011, before me, the undersigned notary public, personally appeared Ryuichi Kanai, proved to me through satisfactory evidence of identification, which were personal knowledge of identity of signer 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.



Sylvia C. Weld
Notary Public

My commission expires: 3/25/2016

