

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>Timothy F. KOWALIK</td> <td>12/12/2005</td> </tr> <tr> <td>Marc E. UKNIS</td> <td>09/30/2005</td> </tr> </tbody> </table>		Name	Execution Date	Timothy F. KOWALIK	12/12/2005	Marc E. UKNIS	09/30/2005
Name	Execution Date						
Timothy F. KOWALIK	12/12/2005						
Marc E. UKNIS	09/30/2005						
RECEIVING PARTY DATA							
Name:	UNIVERSITY OF MASSACHUSETTS						
Street Address:	225 FRANKLIN STREET						
Internal Address:	12TH FLOOR						
City:	BOSTON						
State/Country:	MASSACHUSETTS						
Postal Code:	02110						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13738353</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13738353		
Property Type	Number						
Application Number:	13738353						
CORRESPONDENCE DATA							
Fax Number:	6177424214						
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NAME OF SUBMITTER:	Debra Milasincic						
Signature:	/debra milasincic/						

Date:

08/09/2013

Total Attachments: 3

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ASSIGNMENT BY INVENTORS

WE, Timothy F. KOWALIK and Marc E. UKNIS, of Princeton, Massachusetts and Canton, Massachusetts, respectively, in consideration of One Dollar and other valuable consideration paid to us by

UNIVERSITY OF MASSACHUSETTS

a University of Massachusetts, having its principal place of business at 225 Franklin Street, 12th Floor, Boston, Massachusetts 02110, as represented by its Medical School having a place of business at 333 South Street, Suite 400, Shrewsbury, Massachusetts 01545, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said:

UNIVERSITY OF MASSACHUSETTS

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

THERAPEUTIC ALTERATION OF TRANSPLANTABLE TISSUES THROUGH IN SITU OR EX VIVO EXPOSURE TO RNA INTERFERENCE MOLECULES

described in an application

Executed by us of even date herewith and about to be filed.

or

Application No. 11/179792, filed on July 11, 2005

This application claims the benefit of the following provisional application(s):

Provisional Application No. 60/586530, filed on July 9, 2004

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said University and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said University and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

And we do further hereby grant the attorneys/agents of Cahive & Cookfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

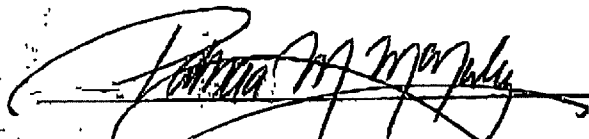


Timothy F. Kowalik


Date: 12/12/05

United States of America)
State of MA) ss.:
County of Worcester)

On this 12th day of DECEMBER, 2005 before me, the
the undersigned notary public, personally appeared TIMOTHY F. KOWALIK
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA DL# S99L00982, to be the person whose name
is signed on the preceding or attached document in my presence.



(official signature and seal of notary)
My commission expires _____



PATRICIA M. McNULTY
Notary Public
Commonwealth of Massachusetts
My Commission Expires
March 23, 2012

Marc E. Uknis

Marc E. Uknis

Date: 9/30/05

United States of America)
State of MASSACHUSETTS) ss.:
County of WORCESTER)

On this 30th day of SEPTEMBER, 2005 before me, the
the undersigned notary public, personally appeared MARC E. UKNIS
(name of document signer), proved to me through satisfactory evidence of identification,
which was DRIVERS LICENSE # E3704835, to be the person whose name
is signed on the preceding or attached document in my presence.

Patricia M. McNulty

(official signature and seal of notary)

My commission expires



PATRICIA M. McNULTY
Notary Public
Commonwealth of Massachusetts
My Commission Expires
March 23, 2012