

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DR. ATHAN KULIOPULOS	04/21/2010
DR. GEORGIOS KOUKOS	04/21/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TUFTS MEDICAL CENTER, INC.
<b>Street Address:</b>	800 WASHINGTON STREET
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02111
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14460353
<b>PCT Number:</b>	US1030783
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)431-7931
<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>	6175016083
<b>Email:</b>	Docket@mzwiplaw.com
<b>Correspondent Name:</b>	MILSTEIN ZHANG & WU LLC
<b>Address Line 1:</b>	2000 COMMONWEALTH AVE., SUITE 400
<b>Address Line 4:</b>	NEWTON, MASSACHUSETTS 02466
<b>ATTORNEY DOCKET NUMBER:</b>	TMC-0407US2
<b>NAME OF SUBMITTER:</b>	DUAN WU
<b>SIGNATURE:</b>	/DW99/
<b>DATE SIGNED:</b>	04/15/2015
<b>Total Attachments: 4</b>	
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## JOINT ASSIGNMENT

WE, **Athan Kuliopulos**, and **Georgios Koukos**, believe that we are the inventors of the subject matter disclosed in the application for patent (hereinafter "the invention or inventions") identified herein as

### **PAR-1 Activation by Metalloproteinase-1 (MMP-1)**

and further identified by Attorney Docket Number [TMC-0407PCT]

☐ for which the undersigned have executed an application for patent in the United States of America on [DATE] and transmitted herewith.

☒ which application for patent was filed on **April 12, 2010**, has been assigned Serial No. **PCT/US2010/030783** by the PCT Receiving Office, United States Patent and Trademark Office, and is based on and claims priority to and the benefit of U.S. Patent Application serial nos. **61/168,353** and **61/168,360** both filed on **April 10 2009**.

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which is hereby acknowledged, each of the undersigned agrees to assign, and hereby does assign, transfer and set over to **Tufts Medical Center, Inc.**, a corporation incorporated in the Commonwealth of Massachusetts, and having a principal place of business at **800 Washington Street, Boston, MA 02111, U.S.A.** (hereinafter designated as the Assignee) his or her entire right, title and interest in the invention or inventions as represented by the application for patent identified herein (the "application") in the United States, its territories, dependencies and possessions, his or her entire right, title, and interest in the application, and his or her entire right, title and interest in the invention or inventions as regards all other national jurisdictions and international entities that have the power to grant patents, wherever situated, including without limitation all applications for patent which claim priority to and/or the benefit of the subject matter disclosed in the application for patent identified herein, including any provisional application, utility application, design application, and/or plant application, as well as any continuation application, divisional application, continuation-in-part application, reissue application, reexamination application, patent interference proceeding, foreign national application and/or any application filed or to be filed under a patent treaty such as the International Convention for Protection of Industrial Property and/or the Patent Cooperation Treaty including national phase applications, and any Letters Patent which may be granted therefor in any jurisdiction.

In addition to the above assignment, each of the undersigned agrees to execute all papers necessary in connection with the application and any continuing applications, divisional applications, continuations-in-part, foreign national applications thereof, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

Each of the undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application, continuation, division, or

Joint Assignment

Serial No. PCT/US2010/030783

Attorney Docket No. TMC-0407PCT

continuation-in-part thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

Each of the undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

Each of the undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any continuing applications, divisional applications, continuations-in-part thereof to said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed and will not execute, any agreement in conflict herewith.


Each of the undersigned hereby grants to any duly empowered legal representative, including all patent practitioners associated with Customer Number 88993, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or with the rules of any other national or international Patent Office for recordation of this document or a true copy thereof.

In witness whereof, this instrument has been executed by the undersigned on the date opposite the respective name of the undersigned.

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. or (b) a U.S. Consul or official apostille if outside the U.S.A. If neither, then it should be signed before at least two witnesses.

Joint Assignment  
Serial No. PCT/US2010/030783  
Attorney Docket No. TMC-0407PCT

Date 7-21-10 Signature

  
Athan Kuliopulos

Commonwealth of Massachusetts)  
County Of Suffolk )ss.:

On this 21st day of April, 2010, before me personally came  
Athan Kuliopulos to me known and known to me to be the person described in and who  
executed the within instrument and he/she acknowledged to me that he/she executed the same.

  
Notary Public



THOMAS J. McVARISH  
NOTARY PUBLIC  
COMMONWEALTH OF MASSACHUSETTS  
My commission expires on October 4, 2013

Joint Assignment

Serial No. PCT/US2010/030783

Attorney Docket No. TMC-0407PCT


Date 4/21/2010

Signature   
Georgios Koukos

Commonwealth of Massachusetts)

County Of Suffolk )ss.:

On this 21st day of April, 2010, before me personally came Georgios Koukos to me known and known to me to be the person described in and who executed the within instrument and he/she acknowledged to me that he/she executed the same.

  
Notary Public



THOMAS J. McVARISH  
NOTARY PUBLIC  
COMMONWEALTH OF MASSACHUSETTS  
My commission expires on October 4, 2013