

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jinjun Shi	06/08/2009
Omid Farokhzad	11/16/2009
Frank Aleixs	11/20/2009
RECEIVING PARTY DATA	
Name:	The Brigham and Women's Hospital , Inc.
Street Address:	75 Francis Street
City:	Boston
State/Country:	MASSACHUSETTS
Postal Code:	02115
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12428388
CORRESPONDENCE DATA	
Fax Number:	(617)542-2241
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	617-542-6000
Email:	vahughes@mintz.com
Correspondent Name:	Cynthia Kozakiewicz
Address Line 1:	One Financial Center
Address Line 2:	Mintz Levin
Address Line 4:	Boston, MASSACHUSETTS 02111
ATTORNEY DOCKET NUMBER:	39408-502002US
NAME OF SUBMITTER:	Cynthia Kozakiewicz

Total Attachments: 5
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**PATENT
 REEL: 023838 FRAME: 0637**

OP \$40.00 12428388

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ASSIGNMENT

I, **JinJun Shi** the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that I have sold and assigned, and do hereby assign, sell and transfer to **The Brigham And Women's Hospital, Inc.**, with offices at 75 Francis Street, Boston, Massachusetts 02115, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NICOTINE IMMUNONANOTHERAPEUTICS

filed with the U.S. Patent and Trademark Office on **April 22, 2009** and assigned Application No. 12/428,388, including any subsequently filed utility applications, which claim priority to Application No. **PCT/US08/11932**, and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 6/8/2009

JinJun Shi
Signature of: **JinJun Shi**

State of MA

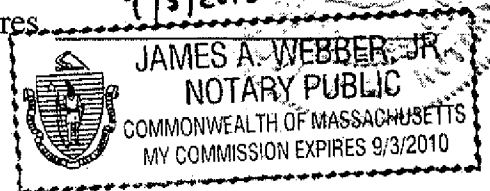
County of Suffolk

On this 8 day of June, 2009, before me, the undersigned notary public, personally appeared **JinJun Shi**, proved to me through satisfactory evidence of identification, which was a BLW ID, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

James A. Webber, Jr.
Notary Public

My commission expires

9/3/2010



4632279v.1

Via EFS

Date of Deposit: January 12, 2010

Attorney Docket No. 39408-502002US

ASSIGNMENT

We, **Omid Farokhzad and Frank Alexis** the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to **The Brigham And Women's Hospital, Inc.**, with offices at 75 Francis Street, Boston, Massachusetts 02115, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NICOTINE IMMUNONANOTHERAPEUTICS

filed with the U.S. Patent and Trademark Office on **April 22, 2009** and assigned Application No. 12/428,388, including any subsequently filed utility applications, which claim priority to Application No. **PCT/US08/11932**, and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

First Inventor: Ulrich von Andrian
Application No.: 12/428,388
Filed: April 22, 2009
Page 2 of 3

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.


We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 11/16/09

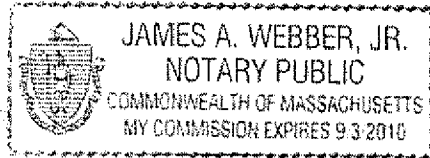

Signature of: **Omid Farokhzad**

State of MA
County of SUEKIL

On this 14 day of November, 2009, before me, the undersigned notary public, personally appeared **Omid Farokhzad**, proved to me through satisfactory evidence of identification, which was a SWIT ID, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.



Notary Public

My commission expires 9/3/2010



First Inventor: Ulrich von Andrian
Application No.: 12/428,388
Filed: April 22, 2009
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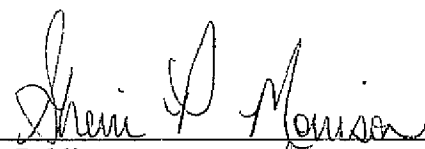
Date: 11/20/2009



Signature of: Frank Alexis

State of South Carolina
County of Greenville

On this 20th day of November, 2009, before me, the undersigned notary public, personally appeared **Frank Alexis**, proved to me through satisfactory evidence of identification, which was a passport, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.



Notary Public

My commission expires September 12, 2012

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