

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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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>
THOMAS A. BOYD	03/25/2011
JULIO PEREZ	04/16/2010
VALERIYA N. SMOLENSKAYA	04/07/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PROGENICS PHARMACEUTICALS, INC.
<b>Street Address:</b>	777 OLD SAW MILL RIVER ROAD
<b>City:</b>	TARRYTOWN
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10591
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13682878
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)607-9200
<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>	6174496500
<b>Email:</b>	AJONES@MCCARTER.COM
<b>Correspondent Name:</b>	MCCARTER & ENGLISH
<b>Address Line 1:</b>	265 FRANKLIN STREET
<b>Address Line 2:</b>	12TH FLOOR
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	119557-09302
<b>NAME OF SUBMITTER:</b>	MANEESH GULATI
<b>SIGNATURE:</b>	/Maneesh Gulati/
<b>DATE SIGNED:</b>	07/02/2014
<b>Total Attachments: 4</b>	
source=Assignment - Progenics - Inventors Boyd,Perez,Smolenskaya (signed)#page1.tif	
source=Assignment - Progenics - Inventors Boyd,Perez,Smolenskaya (signed)#page2.tif	
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source=Assignment - Progenics - Inventors Boyd,Perez,Smolenskaya (signed)#page4.tif	

PATENT

## ASSIGNMENT

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

1. Sell, assign and transfer to Progenics Pharmaceuticals, Inc, a New York corporation having a place of business at 777 Old Saw Mill River Road; Tarrytown, New York 10591, 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 September 29, 2009 under No. 12/593,615, bearing Attorney Docket No. P0453.70143US02, and entitled CRYSTAL FORMS OF (R)-N-METHYLNALTREXONE BROMIDE 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, 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.

March 25, 2011  
Date

Thomas A. Boyd  
Inventor: Thomas A. Boyd  
Address: 279 River Road  
Grandview, NY 10960  
Citizenship: US

STATE/Commonwealth of CALIFORNIA  
COUNTY OF SAN DIEGO

On this 25TH day of MAR, 2011, before me, the undersigned notary public,  
personally appeared Thomas A. Boyd, proved to me through satisfactory evidence of  
identification, which were CA DL# F2269163  
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.

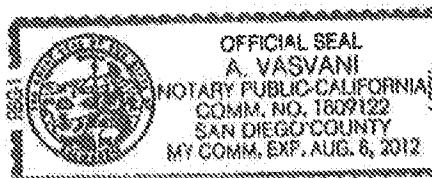
SEAL

[Signature]  
Notary Public

My commission expires:

08/08/12

I certify under PENALTY OF PERJURY  
under the laws of the State of California that  
the foregoing paragraph is true and correct.



Date APR 16/10

Inventor: Julio Perez  
Address: 273D South Broadway  
Tarrytown, NY 10591  
Citizenship: Spain

STATE/Commonwealth of New York  
COUNTY OF Westchester:

On this 16 day of April, 2010, before me, the undersigned notary public,  
personally appeared Julio Perez, proved to me through satisfactory evidence of  
identification, which were NY Drivers License 257470092,  
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

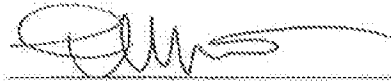
[Signature]  
Notary Public

My commission expires: 6-8-2013

**GARY E. SOLOMON**  
Notary Public - State of New York  
ID No. 01506122442  
Qualified in Westchester County  
My Commission Expires 6-8-2013

April 7, 2010

Date



Inventor: Valeriya N. Smolenskaya

Address: 3125 Courthouse Dr. W, Apt. 3B

West Lafayette, Indiana 47906-1027

Citizenship: Russian Federation

STATE/Commonwealth of IN

COUNTY OF Tippicanoe

On this 7 day of April, 2010, before me, the undersigned notary public, personally appeared Valeriya N. Smolenskaya, proved to me through satisfactory evidence of identification, which were IN Driver Lic

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: \_\_\_\_\_

