

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>Alfred A Avey</td><td>03/02/2011</td></tr><tr><td>Harold D Doshan</td><td>04/20/2011</td></tr><tr><td>Julio Perez</td><td>03/25/2011</td></tr><tr><td>Yakov Rotshteyn</td><td>03/04/2011</td></tr></tbody></table>		Name	Execution Date	Alfred A Avey	03/02/2011	Harold D Doshan	04/20/2011	Julio Perez	03/25/2011	Yakov Rotshteyn	03/04/2011
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Yakov Rotshteyn	03/04/2011										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Progenics Pharmaceuticals, Inc.</td></tr><tr><td>Street Address:</td><td>777 Old Saw Mill River Road</td></tr><tr><td>City:</td><td>Tarrytown</td></tr><tr><td>State/Country:</td><td>NEW YORK</td></tr><tr><td>Postal Code:</td><td>10591</td></tr></table>		Name:	Progenics Pharmaceuticals, Inc.	Street Address:	777 Old Saw Mill River Road	City:	Tarrytown	State/Country:	NEW YORK	Postal Code:	10591
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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>12593619</td></tr></tbody></table>		Property Type	Number	Application Number:	12593619						
Property Type	Number										
Application Number:	12593619										
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_HunterB@wolfgreenfield.com Correspondent Name: C. Hunter Baker Address Line 1: 600 Atlantic Avenue Address Line 2: Federal Reserve Plaza Address Line 4: Boston, MASSACHUSETTS 02210											
ATTORNEY DOCKET NUMBER:	P0453.70144US02										
NAME OF SUBMITTER:	C. Hunter Baker, M.D., Ph.D.										
Total Attachments: 24											

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PATENT
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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 Progenics Pharmaceuticals, Inc, a Delaware 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. 12/593,619, bearing Attorney Docket No. P0453.70144US02, and entitled PERIPHERAL OPIOID RECEPTOR ANTAGONISTS 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.

Mar. 2, 2011
Date

Alfred A. Avey
Inventor: Alfred A. Avey
Address: 2568 Terrace View Drive
Eugene, Oregon 97405
Citizenship: US

STATE/Commonwealth of OREGON
COUNTY OF LANE:

On this 2ND day of MARCH, 2011, before me, the undersigned notary public, personally appeared Alfred A. Avey, proved to me through satisfactory evidence of identification, which were OREGON DRIVER'S LICENSE, 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

Janette R Barkley
Notary Public

My commission expires: April 29, 2013



Date

Inventor: Appavu Chandrasekaren

Address: 35 Thoreau Drive

Plainsboro, NJ 08536

Citizenship: India

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared Appavu Chandrasekaren, proved to me through satisfactory evidence of identification, which were _____, 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: _____

Date

Inventor: Harold D. Doshan

Address: 18 Griffith Road

Riverside, Connecticut 06878

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Harold D. Doshan _____, proved to me through satisfactory evidence of
identification, which were _____,
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: _____

Date

Inventor: Julio Perez

Address: 273D South Broadway
Tarrytown, NY 10591

Citizenship: Spain

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Julio Perez _____, proved to me through satisfactory evidence of
identification, which were _____,
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: _____

Date

Inventor: Yakov Rotshteyn

Address: 2 Blossom Court, P.O. Box 27
Blooming Grove, NY 10914-0027

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Yakov Rotshteyn _____, proved to me through satisfactory evidence of
identification, which were _____,
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
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SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

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

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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.

Date

Inventor: Alfred A. Avey

Address: 2568 Terrace View Drive

Eugene, Oregon 97405

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Alfred A. Avey _____, proved to me through satisfactory evidence of
identification, which were _____,
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: _____

Date

Inventor: Appavu Chandrasekaren

Address: 35 Thoreau Drive
Plainsboro, NJ 08536

Citizenship: India

STATE/COMMONWEALTH OF _____
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared Appavu Chandrasekaren, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
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SEAL

Notary Public

My commission expires: _____

Date

Inventor: Harold D. Doshan

Address: 18 Griffith Road

Riverside, Connecticut 06878

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Harold D. Doshan _____, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
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and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

MAR/25/11
Date

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

STATE/Commonwealth of New York
COUNTY OF New York:

On this 25 day of March, 2011, before me, the undersigned notary public,
personally appeared Julio Perez, proved to me through satisfactory evidence of
identification, which were NYS Driver License,
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

Joseph Ahn
Notary Public

My commission expires: 9/2/2012

JOSEPH AHN
Notary Public, State of New York
No. 01AH6192843
Qualified in New York County
Commission Expires 9/2/12

Date

Inventor: Yakov Rotshteyn

Address: 2 Blossom Court, P.O. Box 27

Blooming Grove, NY 10914-0027

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Yakov Rotshteyn _____, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
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SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

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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.

Date _____

Inventor: Alfred A. Avey _____

Address: 2568 Terrace View Drive

Eugene, Oregon 97405

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared Alfred A. Avey _____, proved to me through satisfactory evidence of
identification, which were _____,
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: _____

Date _____

Inventor: Appavu Chandrasekaren _____

Address: 35 Thoreau Drive
Plainsboro, NJ 08536

Citizenship: India

STATE/Commonwealth of _____
County of _____ :

On this _____ day of _____, _____, before me, the undersigned notary public, personally appeared Appavu Chandrasekaren, proved to me through satisfactory evidence of identification, which were _____, 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: _____

Date

Inventor: Harold D. Doshan

Address: 18 Griffith Road

Riverside, Connecticut 06878

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Harold D. Doshan _____, proved to me through satisfactory evidence of
identification, which were _____,
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
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SEAL

Notary Public

My commission expires: _____

Date

Inventor: Julio Perez

Address: 273D South Broadway

Tarrytown, NY 10591

Citizenship: Spain

STATE/Commonwealth of _____
County of _____:

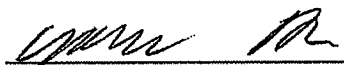
On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared Julio Perez, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that 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: _____


3-4-2011
Date

Inventor: 
Address: 2 Blossom Court, P.O. Box 27
Blooming Grove, NY 10914-0027
Citizenship: US

STATE/COMMONWEALTH OF NEW YORK
COUNTY OF WESTCHESTER:

On this 4TH day of MARCH, 2011, before me, the undersigned notary public, personally appeared Yakov Rotshteyn, proved to me through satisfactory evidence of identification, which were PERSONALLY KNOWN, 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: JULY 16, 2011

ELIZABETH MANOCCHI
Notary Public, State of New York
No. 01MA6061645
Qualified in Westchester County
Commission Expires July 16, 2011

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 Delaware 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. 12/593,619, bearing Attorney Docket No. P0453.70144US02, and entitled PERIPHERAL OPIOID RECEPTOR ANTAGONISTS 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;
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Inventor: Alfred A. Avey

Address: 2568 Terrace View Drive

Eugene, Oregon 97405

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Alfred A. Avey _____, proved to me through satisfactory evidence of
identification, which were _____,
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SEAL

Notary Public

My commission expires: _____

20 April 2011
Date

Harold D. Doshan
Inventor: Harold D. Doshan
Address: 18 Griffith Road
Riverside, Connecticut 06878
Citizenship: US

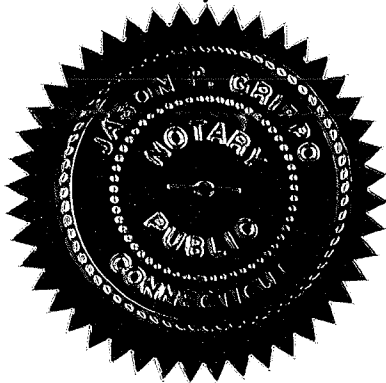
STATE/Commonwealth of Connecticut
COUNTY OF FAIRFIELD:

On this 20 day of APRIL, 2011, before me, the undersigned notary public,
personally appeared Harold D. Doshan, proved to me through satisfactory evidence of
identification, which were CT DRIVER LICENSE,
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: 9-30-2011



Jason Grippo
Notary Public, Connecticut
My Commission Expires Sept. 30, 2011

Date

Inventor: Julio Perez

Address: 273D South Broadway

Tarrytown, NY 10591

Citizenship: Spain

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Julio Perez _____, proved to me through satisfactory evidence of
identification, which were _____,
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: _____

Date

Inventor: Yakov Rotshteyn

Address: 2 Blossom Court, P.O. Box 27

Blooming Grove, NY 10914-0027

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Yakov Rotshteyn _____, proved to me through satisfactory evidence of
identification, which were _____,
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: _____