PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Robert B. WILSON	08/18/2011
Maria Grazia COTTICELLI	08/18/2011
Phillip A. BENEDETTI	08/25/2011
Amos SMITH	07/27/2011
Jason E. MELVIN	07/27/2011
Donna M HURYN	08/15/2011

RECEIVING PARTY DATA

Name:	The Trustees of the University of Pennsylvania
Street Address:	3160 Chestnut Street
Internal Address:	Suite 200
City:	Philadelphia
State/Country:	PENNSYLVANIA
Postal Code:	19104

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13139162

CORRESPONDENCE DATA

Fax Number: (646)878-0801 Phone: 646-878-0800 Email: USPTO@pczlaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

501704040

Correspondent Name: Pearl Cohen Zedek Latzer, LLP

Address Line 1: 1500 Broadway Address Line 2: 12th Floor

Address Line 4: New York, NEW YORK 10036

PATENT

REEL: 027127 FRAME: 0948

ATTORNEY DOCKET NUMBER:	P-71457-US	
NAME OF SUBMITTER:	Michella A. Eburne	
Total Attachments: 13		
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PATENT REEL: 027127 FRAME: 0949

ASSIGNMENT

In exchange for valuable consideration, and other good and valuable consideration, the Receipt of which is hereby acknowledged, I the undersigned, WILSON, Robert B. residing at 240 Beech Hill Road, Wynnewood, PA 19096; COTTICELLI, Maria Grazia residing at 1321 Spruce St. apt 6C, Philadelphia PA 19107; BENEDETTI, Phillip A. residing at 28 Escanyo Drive, South San Francisco, CA 94080; SMITH, Amos residing at 517 General Lafayette Road, Merion, Pennsylvania; MELVIN, Jason E. residing at 517 General Lafayette Road, Merion, Pennsylvania; HURYN, Donna M. residing at 8 Tyler Court, Allentown, NJ 08501;

Hereby sell, assign and transfer to The Trustees of the University of Pennsylvania located at 3160 Chestnut Street- Suite 200, Philadelphia, PA 19104-6283 its successors, assigns and legal representatives (hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in the application for United States Application No. 13/139,162, filed June 10, 2011, which is a National Phase Application of PCT International Application No. PCT/US09/67517, PCT International filing date 10-Dec-2009 and is entitled:

SMALL MOLECULE ACTIVATORS OF MITOCHONDRIAL FUNCTION

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions. I hereby authorize and request the attorney of record of the firm Pearl Cohen Zedek Latzer, LLP, 1500 Broadway, 12th Floor, New York, New York 10036, to insert in the parentheses above, the filing date and US Serial No. of said application when known;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international

-1-

agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

COVENANT with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

COVENANT with said Assignee, its successors, assigns and legal representatives that A written release or promise hereafter made and signed by the person releasing or promising, shall not be invalid or unenforceable for lack of consideration, if the writing also contains an additional express statement, in any form of language, that the signer intends to be legally bound.

08/18/2011 - W.L. WILSON, Robert B.

STATE OF: Penusy/vania: ss.

Notary Public

:

NOTARIAL SEAL
CANDICE ADAMS, Notary Public
City of Philadelphia, Phila. County
My Commission Expires August 26, 2014

COMMONWEALTH OF PENNSYLVANIA

8/18/11	Courcell, have grava
(month / day / year)	Cotticelli, Maria Grazia
STATE OF: <u>PA</u> COUNTY OF: <u>Philachlyliq</u>	_; ; ss. _;
hugust, 2011, personally appear known, and who having first executed me first duly sworn, did acknowledge t	day of red Cotticelli, Maria Grazia, who being to me personally the foregoing instrument in my presence and having been by the foregoing instrument as his free deed and act, signed, sealed therein stated and intending to be legally bound thereby and led. Notary Public COMMONWEALTH OF PENNSYLVAMI NOTARIAL SEAL CANDICE ADAMS, Notary Public City of Philadelphia, Phila. County My Commission Expires August 26, 2014
(month / day / year)	Benedetti, Phillip A.
STATE OF:	_: : ss.
COUNTY OF:	
and who having first executed the fore duly sworn, did acknowledge the fore	day of the State and County aforesaid, on this day of the Benedetti, Phillip A., who being to me personally known, agoing instrument in my presence and having been by me first going instrument as his free deed and act, signed, sealed and erein stated and intending to be legally bound thereby and led.
	Notary Public

Docket No.:

P-71457-US

	Docket No.: P-71457-US
July 27, 2011 (month / day / year)	SMITH, Amos
STATE OF: <u>Pennsylvania</u> :ss	
1) $\omega(\sqrt{})$, 2011, personally appeared SM having first executed the foregoing instructions, did acknowledge the foregoing in	r the State and County aforesaid, on this
July 27, 2011 (month/day/year)	Melvin, Jason E.
state of: <u>Pennsylvania</u> : county of: <u>Philadelphia</u> : ss	•
who having first executed the foregoing ins sworn, did acknowledge the foregoing ir	r the State and County aforesaid, on this
	My Commission Expires: 8/26/14
	COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL CANDICE ADAMS, Notary Public City of Philadelphia, Phila. County My Commission Expires August 26, 2014

PATENT

REEL: 027127 FRAME: 0953

(month / day / year)	agentaria.	Huryn, Donna M	
STATE OF:			
	:ss.		
COUNTY OF:	;		
, 2011, personally who having first executed the sworn, did acknowledge the	appeared Huryn, foregoing instrum foregoing instrum rpose therein stat	State and County aforesaid, on this _ Donna M., who being to me personent in my presence and having been ment as his free deed and act, signed and intending to be legally bo	nally known, and by me first duly gned, sealed and
		Notary Public	
	Му	Commission Expires:	

ASSIGNMENT

In exchange for valuable consideration, and other good and valuable consideration, the Receipt of which is hereby acknowledged, I the undersigned, WILSON, Robert B. residing at 240 Beech Hill Road, Wynnewood, PA 19096; COTTICELLI, Maria Grazia residing at 1321 Spruce St. apt 6C, Philadelphia PA 19107; BENEDETTI, Phillip A. residing at 28 Escanyo Drive, South San Francisco, CA 94080; SMITH, Amos residing at 517 General Lafayette Road, Merion, Pennsylvania; MELVIN, Jason E. residing at 517 General Lafayette Road, Merion, Pennsylvania; HURYN, Donna M. residing at 8 Tyler Court, Allentown, NJ 08501;

Hereby sell, assign and transfer to The Trustees of the University of Pennsylvania located at 3160 Chestnut Street- Suite 200, Philadelphia, PA 19104-6283 its successors, assigns and legal representatives (hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in the application for United States Application No. 13/139,162, filed June 10, 2011, which is a National Phase Application of PCT International Application No. PCT/US09/67517, PCT International filing date 10-Dec-2009 and is entitled:

SMALL MOLECULE ACTIVATORS OF MITOCHONDRIAL FUNCTION

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions. I hereby authorize and request the attorney of record of the firm Pearl Cohen Zedek Latzer, LLP, 1500 Broadway, 12th Floor, New York, New York 10036, to insert in the parentheses above, the filing date and US Serial No. of said application when known;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international

PATENT REEL: 027127 FRAME: 0955

agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

COVENANT with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

COVENANT with said Assignee, its successors, assigns and legal representatives that A written release or promise hereafter made and signed by the person releasing or promising, shall not be invalid or unenforceable for lack of consideration, if the writing also contains an additional express statement, in any form of language, that the signer intends to be legally bound.

(month / day / year)		WILSON, Robert B.	
STATE OF:	:		
COUNTY OF:	: ss. :		
, 2011, personall and who having first executed duly sworn, did acknowledge	y appeared WILSON, R d the foregoing instrume e the foregoing instrume arpose therein stated an	and County aforesaid, on this Robert B., who being to me persent in my presence and having bent as his free deed and act, sign ad intending to be legally bour	sonally known, een by me first ned, sealed and
		Notary Public	

(month / day / year)	Cotticelli, Maria Grazia
STATE OF::	
COUNTY OF: : ss.	
, 2011, personally appeared Cottic known, and who having first executed the foregome first duly sworn, did acknowledge the foregoing	State and County aforesaid, on this day of the celli, Maria Grazia, who being to me personally oing instrument in my presence and having been by an instrument as his free deed and act, signed, sealed ated and intending to be legally bound thereby and
	Notary Public
My	Commission Expires:
(month / day / year)	Benedetti, Phillip A.
STATE OF: <u>California</u> : ss. COUNTY OF: <u>San Mateo</u> :	
Access, 2011, personally appeared Benede and who having first executed the foregoing inst duly sworn, did acknowledge the foregoing inst	State and County aforesaid, on this day of tti, Phillip A., who being to me personally known trument in my presence and having been by me first rument as his free deed and act, signed, sealed and and intending to be legally bound thereby and Notary Public

ASSIGNMENT

In exchange for valuable consideration, and other good and valuable consideration, the Receipt of which is hereby acknowledged, I the undersigned, WILSON, Robert B. residing at 240 Beech Hill Road, Wynnewood, PA 19096; COTTICELLI, Maria Grazia residing at 1321 Spruce St. apt 6C. Philadelphia PA 19107; BENEDETTI, Phillip A. residing at 28 Escanyo Drive, South San Francisco, CA 94080; SMITH, Amos residing at 517 General Lafayette Road, Merion, Pennsylvania; MELVIN, Jason E. residing at 517 General Lafayette Road, Merion, Pennsylvania; HURYN, Donna M. residing at 8 Tyler Court, Allentown, NJ 08501;

Hereby sell, assign and transfer to The Trustees of the University of Pennsylvania located at 3160 Chestnot Street-Suite 200, Philadelphia, PA 19104-6283 its successors, assigns and legal representatives (hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in the application for United States Application No. 13/139,162, filed June 10, 2011, which is a National Phase Application of PCT International Application No. PCT/US09/67517, PCT International filing date 10-Dec-2009 and is entitled:

SMALL MOLECULE ACTIVATORS OF MITOCHONDRIAL FUNCTION

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions. I hereby authorize and request the attorney of record of the firm Pearl Cohen Zedek Latzer, LLP, 1500 Broadway, 12th Floor, New York, New York 10036, to insert in the parentheses above, the filing date and US Serial No. of said application when known;

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Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international

agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries; execute all divisional, continuing, substitute, renewal, relassee, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof, testify in all legal proceedings; and generally do everything possible which said Assignce, its successors, assigns or representatives shall consider devirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignce, its successors, assigns and legal representatives; and

COVENANT with said Assigned, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

COVENANT with said Assignee, its successors, assigns and legal representatives that A written release or promise hereafter made and signed by the person releasing or promising, shall not be invalid or unenforceable for lack of consideration, if the writing also contains an additional express statement, in any form of language, that the signer intends to be legally bound.

(mooth/day/year)	WILSON, Robert B.
STATE OF:	
COUNTY OF:	
	for the State and County aforesaid, on thisday of WILSON, Robert B., who being to me personally known, oing instrument in my presence and having been by me first sing instrument as his free deed and act, signed, scaled and cin stated and intending to be legally bound thereby and d.
	Notary Public
	My Commission Expires:

PATENT

REEL: 027127 FRAME: 0959

(month / day / year)	Cotticelli, Maria	Grazia
STATE OF:		
COUNTY OF:	3 %%. 	
2011, personally a cook, and who having first exe ne first duly sworn, did acknowle	in and for the State and County afores opeared Cotticelli, Maria Grazia, stated the foregoing instrument in my dge the foregoing instrument as his frepose therein stated and intending to becomed.	who being to me personally presence and having been by a deed and act, signed, scaled
	Notary Public	
	My Commission Expires:	
(month / day / year)	Benedetti, Phillip	
international district		
STATE OF:		
COUNTY OF	· · · · · · · · · · · · · · · · · · ·	
	in and for the State and County aforcs seared Benedetti, Phillip A. , who be	
ind who having first executed th July swom, did acknowledge the	foregoing instrument in my presence foregoing instrument as his free dee e therein stated and intending to be	and having been by me first dand act, signed, scaled and
	Notary Public	
	My Commission Expires:	

(month / day / year). SMITH, Amos STATE OF: COUNTY OF: Before me, a notary public in and for the State and County aforesaid, on this ______ day of , 2011, personally appeared SMITH, Amos, who being to me personally known, and who having first executed the foregoing instrument in my presence and having been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, scaled and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded. Notary Public My Commission Expires: Melvin, Jason E. (month / day / year) STATE OF: COUNTY OF: Before me, a notary public in and for the State and County aforesaid, on this ______ day of ______, 2011, personally appeared Melvin, Jason E., who being to me personally known, and who having first executed the foregoing instrument in my presence and having been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, scaled and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded. Notary Public

Docket No.:

P-71457-US

~ \$ ×

9 | 15 | 2011 | (moleth / day / year)

Buryn, Donna M

STATE OF: <u>leaesylvania</u>:

COUNTY OF: <u>Philadelphia</u>:

Before me, a notary public in and for the State and County aforesaid, on this 15 day of August 2011, personally appeared **Huryn**, **Donna M.**, who being to me personally known, and who having first executed the foregoing instrument in my presence and having been by me first duly swom. did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Notary Bublic 2/9/14

My Commission Expires:

COMMONWAY AS THE OF PERMANEN VANIA

NOTARIAL SEAL CANDICE ADAMS, Notary Public City of Philippelphia, Phila, County My Contribution Expires August 28, 2014