

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>Jonni MOORE</td> <td>11/15/2012</td> </tr> <tr> <td>Sindhu CHERIAN</td> <td>12/31/2012</td> </tr> <tr> <td>Adam BAGG</td> <td>11/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jonni MOORE	11/15/2012	Sindhu CHERIAN	12/31/2012	Adam BAGG	11/16/2012				
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<table border="1"> <tr> <td>Name:</td> <td>THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA</td> </tr> <tr> <td>Street Address:</td> <td>3160 Chestnut Street</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 200</td> </tr> <tr> <td>City:</td> <td>Philadelphia</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>19104-6283</td> </tr> </table>		Name:	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA	Street Address:	3160 Chestnut Street	Internal Address:	Suite 200	City:	Philadelphia	State/Country:	PENNSYLVANIA	Postal Code:	19104-6283
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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>13019167</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13019167								
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CORRESPONDENCE DATA													
<p>Fax Number: 6468780801 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 646-878-0800 Email: USPTO@pczl.com 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</p>													
ATTORNEY DOCKET NUMBER:	P-7137-US1												
NAME OF SUBMITTER:	Andrea Richter												
Total Attachments: 9													

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ASSIGNMENT

In exchange for valuable consideration, and other good and valuable consideration, the Receipt of which is hereby acknowledged, I the undersigned, MOORE, Jonni residing at 435 Camden Avenue, Moorestown, NJ 08057; CHERIAN, Sindhu residing at 6022 Latona Ave NE, Seattle, WA 98115; BAGG, Adam residing at 502 Meadow Lane, Gulph Mills, PA 19406-3737,

Hereby sell, assign and transfer to The Trustees Of The University Of Pennsylvania, located at Center for Technology Transfer, 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 United States Patent U.S. Serial No. 13/019,167 filed February 1, 2011 and is entitled

METHODS FOR DIAGNOSIS OF MYELODYSPLASTIC SYNDROMES (MDS)

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.

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 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.

11/15/2012
(month / day / year)

Jonni Moore
MOORE, Jonni

STATE OF: Pennsylvania :
: ss.
COUNTY OF: Philadelphia :

Before me, a notary public in and for the State and County aforesaid, on this 15th day of November, 2012, personally appeared MOORE, Jonni, 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, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Jessica M. Coyle
Notary Public

My Commission Expires: 2/26/2013

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Jessica M. Coyle, Notary Public
City of Philadelphia, Philadelphia County
My Commission Expires Feb. 26, 2013
Member, Pennsylvania Association of Notaries

(month / day / year)

CHERIAN, Sindhu

STATE OF: _____:
: ss.
COUNTY OF: _____:

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2012, personally appeared CHERIAN, Sindhu, 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, 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 Public

My Commission Expires:

(month / day / year)

BAGG, Adam

STATE OF: _____:
: ss.
COUNTY OF: _____:

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2012, personally appeared BAGG, Adam, 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, 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 Public

My Commission Expires:

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Hereby sell, assign and transfer to The Trustees Of The University Of Pennsylvania, located at Center for Technology Transfer, 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 United States Patent U.S. Serial No. 13/019,167 filed February 1, 2011 and is entitled

METHODS FOR DIAGNOSIS OF MYELODYSPLASTIC SYNDROMES (MDS)

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.

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 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.

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(month / day / year)

MOORE, Jonni

STATE OF: _____:

: ss.

COUNTY OF: _____:

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2012, personally appeared MOORE, Jonni, 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, 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 Public

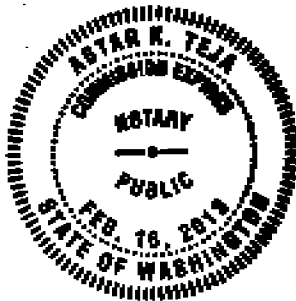
My Commission Expires:

12/31/2012
(month / day / year)

[Signature]
CHERIAN, Sindhu

STATE OF: Washington :
: ss.
COUNTY OF: King :

Before me, a notary public in and for the State and County aforesaid, on this 31st day of Dec, 2012, personally appeared CHERIAN, Sindhu, 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, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.



[Signature]
Notary Public

My Commission Expires: 2/16/2013,

(month / day / year)

BAGG, Adam

STATE OF: _____ :
: ss.
COUNTY OF: _____ :

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2012, personally appeared BAGG, Adam, 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, 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 Public

My Commission Expires:

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METHODS FOR DIAGNOSIS OF MYELODYSPLASTIC SYNDROMES (MDS)

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(month / day / year)

MOORE, Jonni

STATE OF: _____:
: ss.
COUNTY OF: _____:

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2012, personally appeared MOORE, Jonni, 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, 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 Public

My Commission Expires:

(month / day / year)

CHERIAN, Sindhu

STATE OF: _____; _____ ss.
COUNTY OF: _____;

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2012, personally appeared CHERIAN, Sindhu, 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, 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 Public

My Commission Expires: _____

11/16/2012

(month / day / year)

BAGG, Adam

STATE OF: Pennsylvania :
COUNTY OF: Philadelphia : SS.

Before me, a notary public in and for the State and County aforesaid, on this 16th day of November, 2012, personally appeared BAGG, Adam, 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, 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 Public

My Commission Expires: _____

2/24/16

