

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2658735

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>MARK I. GREENE</td> <td>12/03/2013</td> </tr> <tr> <td>HONGTAO ZHANG</td> <td>12/03/2013</td> </tr> <tr> <td>ALAN BEREZOV</td> <td>11/04/2013</td> </tr> <tr> <td>ZHENG CAI</td> <td>12/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	MARK I. GREENE	12/03/2013	HONGTAO ZHANG	12/03/2013	ALAN BEREZOV	11/04/2013	ZHENG CAI	12/03/2013		
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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</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
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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>14005066</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14005066								
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CORRESPONDENCE DATA													
Fax Number:	(215)568-3439												
Phone:	215-568-3100												
Email:	assignments@woodcock.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	WOODCOCK WASHBURN LLP												
Address Line 1:	2929 ARCH STREET												
Address Line 2:	CIRA CENTRE, 12TH FLOOR												
Address Line 4:	PHILADELPHIA, PENNSYLVANIA 19104												
ATTORNEY DOCKET NUMBER:	UPN-5884 / X5800												
NAME OF SUBMITTER:	VALERIE CHICCHI												

CH \$40.00 14005066

Signature:	/Valerie Chicchi/
Date:	12/23/2013
<p>Total Attachments: 8</p> <p>source=EXECUTED_ASSIGNMENTS#page1.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page2.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page3.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page4.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page5.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page6.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page7.tif</p> <p>source=EXECUTED_ASSIGNMENTS#page8.tif</p>	

ASSIGNMENT

WHEREAS, I, **Mark I. Greene** citizen of **United States**, residing at **300 Righters Mill Road, Penn Valley, PA 19072**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5884 / X5800** ("the invention"), assigned application number **14/005,066** which is entitled **METHODS AND USE OF BIFUNCTIONAL ENZYME-BUILDING CLAMP-SHAPED MOLECULES** ("the subject application"), and which claims priority to U.S. patent application number **61/453,682** filed **March 17, 2011**, and U.S. patent application number **61/486,453** filed **May 16, 2011** ("the priority applications"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **The Trustees of The University of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, PA 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

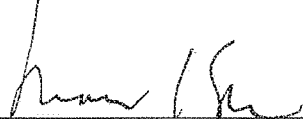
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in

DOCKET NO.: UPN-5884 / X5800

the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 3rd day of December, year of 2013



Mark I. Greene

STATEMENT OF WITNESS

SIGNED at Philadelphia, PA USA

(City) (Country)

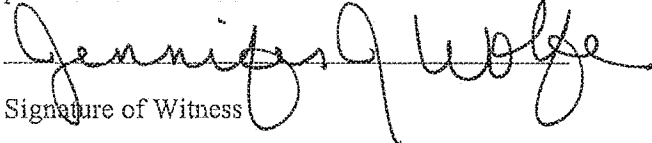
This 3rd day of December, 2013

I, Jennifer Wolfe whose full

residence address is 821 E. 22nd St.

2nd floor Chester PA 19013

3rd was personally present and did see Mark Greene execute the above assignment on the 3rd day of December, 2013, and such assignor is personally known to me to be the person described in such document.



Signature of Witness

ASSIGNMENT

WHEREAS, I, **Hongtao Zhang** citizen of **United States**, residing at **1651 Valley Greene Road, Paoli PA 19301**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5884 / X5800** ("the invention"), assigned application number **14/005,066** which is entitled **METHODS AND USE OF BIFUNCTIONAL ENZYME-BUILDING CLAMP-SHAPED MOLECULES** ("the subject application"), and which claims priority to U.S. patent application number **61/453,682** filed **March 17, 2011**, and U.S. patent application number **61/486,453** filed **May 16, 2011** ("the priority applications"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **The Trustees of The University of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, PA 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

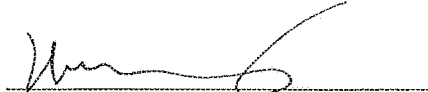
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in

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the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 3rd day of December, year of 2013



Hongtao Zhang

STATEMENT OF WITNESS

SIGNED at Philadelphia, PA USA

(City)

(Country)

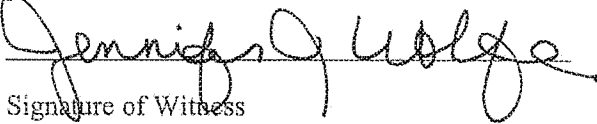
This 3rd day of December, 2013

I, Jennifer Wolfe whose full

residence address is 821 E. 22nd St.

2nd Floor, Chester PA 19013

was personally present and did see Hongtao Zhang execute the above assignment on the 3rd day of December, 2013, and such assignor is personally known to me to be the person described in such document.



Signature of Witness

ASSIGNMENT

WHEREAS, I, **Alan Berezov** citizen of **United States**, residing at **7549 Lexington Avenue, Apt. 10, West Hollywood, CA 90046**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5884 / X5800** ("the invention"), assigned application number **14/005,066** which is entitled **METHODS AND USE OF BIFUNCTIONAL ENZYME-BUILDING CLAMP-SHAPED MOLECULES** ("the subject application"), and which claims priority to U.S. patent application number **61/453,682** filed **March 17, 2011**, and U.S. patent application number **61/486,453** filed **May 16, 2011** ("the priority applications"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **The Trustees of The University of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, PA 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in

the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 04 day of November, year of 2013.

A. Berezov

Alan Berezov

STATEMENT OF NOTARY PUBLIC

STATE OF California :

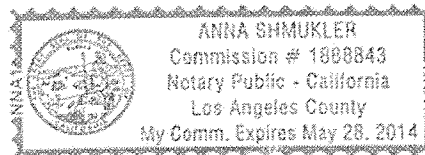
: SS

COUNTY OF Los Angeles :

On this 04th day of November, year of 2013, before me personally came the above named Alan Berezov to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

A. Shmukler

Notary Public



ASSIGNMENT

WHEREAS, I, **Zheng Cai** citizen of **China**, residing at **103 Henley Road, Wynneewood, PA 19096**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5884 / X5800** ("the invention"), assigned application number **14/005,066** which is entitled **METHODS AND USE OF BIFUNCTIONAL ENZYME-BUILDING CLAMP-SHAPED MOLECULES** ("the subject application"), and which claims priority to U.S. patent application number **61/453,682** filed **March 17, 2011**, and U.S. patent application number **61/486,453** filed **May 16, 2011** ("the priority applications"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, **The Trustees of The University of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, PA 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 3rd day of Dec, year of 2013.

Zheng Cai

Zheng Cai

STATEMENT OF WITNESS

SIGNED at Philadelphia PA USA

(City)

(Country)

This 3rd day of December, 2013

I, Jennifer Wolfe, whose full

residence address is 821 E. 22nd St. 2nd Floor
Chester PA 19013

was personally present and did see Zheng Cai execute the above assignment on the
3rd day of December, 2013, and such assignor is personally known to me to be the
person described in such document.

Jennifer Wolfe

Signature of Witness