

PATENT ASSIGNMENT

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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>Hidde Ploegh</td> <td>05/28/2013</td> </tr> <tr> <td>Maximilian Popp</td> <td>05/24/2013</td> </tr> <tr> <td>Juanjo Cragolini</td> <td>05/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Hidde Ploegh	05/28/2013	Maximilian Popp	05/24/2013	Juanjo Cragolini	05/30/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Whitehead Institute for Biomedical Research</td> </tr> <tr> <td>Street Address:</td> <td>Nine Cambridge Center</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02142</td> </tr> </table>		Name:	Whitehead Institute for Biomedical Research	Street Address:	Nine Cambridge Center	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02142
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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>PCT Number:</td> <td>US2013036630</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US2013036630						
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CORRESPONDENCE DATA											
Fax Number: 7816225933 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 781-622-5930 Email: patentadmin@mbbp.com Correspondent Name: Lisa M. Treannie, Esq. Address Line 1: Morse, Barnes-Brown & Pendleton, P.C. Address Line 2: CityPoint, 230 Third Avenue, 4th Floor Address Line 4: Waltham, MASSACHUSETTS 02451											
ATTORNEY DOCKET NUMBER:	WIBR-132-WO2										
NAME OF SUBMITTER:	Lisa M. Treannie										
Signature:	/Lisa M. Treannie/										

Date:

07/24/2013

Total Attachments: 12

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ASSIGNMENT

WHEREAS, we, **Hidde Ploegh, Maximilian Popp and Juanjo Cragnolini**, have invented subject matter described in a Patent Cooperation Treaty (PCT) application entitled **SORTASE-MODIFIED VIII DOMAINS AND USES THEREOF** (hereinafter "INVENTION"), the specification of which:

☐ is being executed on even date herewith; and is about to be filed in the United States Patent Office;

☒ was filed on April 15, 2013, as PCT Application No. PCT/US2013/036630;

WHEREAS, **Whitehead Institute for Biomedical Research**, (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the state of **Delaware**, having principal offices at **Nine Cambridge Center, Cambridge, MA 02142**, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said INVENTION as described in said application, together with our entire right, title and interest in and to said application and foreign counterpart applications and such Letters Patent issued or issuing in whole or in part thereon, as well as any reissue and continuing applications and foreign counterpart applications thereof as well as any Letters Patent issued or issuing in whole or part thereon, and including the right to claim priority under any applicable statute, treaty or convention based on said application; said INVENTION, applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: _____

Hilde Plotgh

Commonwealth of Massachusetts

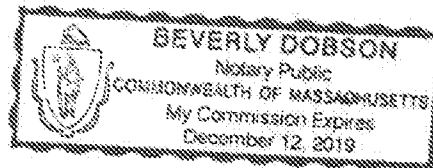
County of Middlesex

On this 28 day of May, 2013, before me, the undersigned notary public, personally appeared Hilde Plotgh, proved to me through satisfactory evidence of identification, which was Driver's License, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Beverly Dobson
Notary Public

My commission expires 12/12/19



Inventor's Signature: _____
Maximilian Popp

Commonwealth of Massachusetts
County of _____

On this _____ day of _____, 2013, before me, the undersigned notary public,
personally appeared Maximilian Popp, proved to me through satisfactory evidence of
identification, which was _____, to be the person whose name is
signed on the preceding or attached document in my presence.

(SEAL)

Notary Public

My commission expires _____

Inventor's Signature: _____
Juanjo Cragnolini

State of _____
County of _____

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Juanjo Cragnolini, proved to me through satisfactory evidence of identification, which was _____, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Notary Public

My commission expires _____

ASSIGNMENT

WHEREAS, we, Hidde Floegh, Maximilian Popp and Juanjo Cragnolini, have invented subject matter described in a Patent Cooperation Treaty (PCT) application entitled **SORTASE-MODIFIED VHH DOMAINS AND USES THEREOF** (hereinafter "INVENTION"), the specification of which:

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NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said INVENTION as described in said application, together with our entire right, title and interest in and to said application and foreign counterpart applications and such Letters Patent issued or issuing in whole or in part thereon, as well as any reissue and continuing applications and foreign counterpart applications thereof as well as any Letters Patent issued or issuing in whole or part thereon, and including the right to claim priority under any applicable statute, treaty or convention based on said application; said INVENTION, applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: _____
Hidde Ploegh

Commonwealth of Massachusetts
County of _____

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Hidde Ploegh, proved to me through satisfactory evidence of identification, which was _____, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Notary Public

My commission expires _____

Inventor's Signature: _____

Maximilian Popp

New York
Commonwealth of ~~Massachusetts~~
County of Monroe

On this 24 day of May, 2013, before me, the undersigned notary public, personally appeared Maximilian Popp, proved to me through satisfactory evidence of identification, which was NY Driver's Lic, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Kathleen T. Zoller
Notary Public

My commission expires 9/19/13

KATHLEEN T. ZOLLER
Notary Public - State of New York
No. 01-208133575
Qualified in Monroe County
My Commission Exp. 9/19/2013

Inventor's Signature: _____
Juanjo Cagnolini

State of _____
County of _____

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Juanjo Cagnolini, proved to me through satisfactory evidence of identification, which was _____, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Notary Public

My commission expires _____

ASSIGNMENT

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: _____
Hidde Ploegh

Commonwealth of Massachusetts
County of _____

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Hidde Ploegh, proved to me through satisfactory evidence of identification, which was _____, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Notary Public

My commission expires _____

Inventor's Signature: _____
Maximilian Pepp

Commonwealth of Massachusetts
County of _____

On this _____ day of _____, 2013, before me, the undersigned notary public,
personally appeared Maximilian Pepp, proved to me through satisfactory evidence of
identification, which was _____, to be the person whose name is
signed on the preceding or attached document in my presence.

(SEAL)

Notary Public

My commission expires _____

Inventor's Signature: _____

Juanjo CragnoliniState of Massachusetts
County of Middlesex

On this 30 day of May, 2013, before me, the undersigned notary public, personally appeared Juanjo Cragnolini, proved to me through satisfactory evidence of identification, which was personal knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)

Adina Davis
Notary PublicMy commission expires 0-4-16