

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5628788

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIDDE L. PLOEGH	03/04/2015
LEE KIM SWEE	03/12/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH
<b>Street Address:</b>	455 MAIN STREET
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02142
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16381654
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)646-8646
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	617-646-8000
<b>Email:</b>	patents_JessicaChao@wolfgreenfield.com, karen.boucher@wolfgreenfield.com
<b>Correspondent Name:</b>	JESSICA CHAO
<b>Address Line 1:</b>	WOLF, GREENFIELD & SACKS, P.C.
<b>Address Line 2:</b>	600 ATLANTIC AVENUE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	W0571.70040US04
<b>NAME OF SUBMITTER:</b>	JESSICA J. CHAO
<b>SIGNATURE:</b>	/Jessica J. Chao/
<b>DATE SIGNED:</b>	07/22/2019
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 049813 FRAME: 0326**

## ASSIGNMENT

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

1. Sell, assign, and transfer to Whitehead Institute for Biomedical Research, a Delaware corporation, having a place of business at Nine Cambridge Center, Cambridge, Massachusetts 02142, 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 international PCT application filed with the United States Patent and Trademark Office as the Receiving Office on May 9, 2014, under No. PCT/US2014/037545, bearing Attorney Docket No. W0571.70040WO00, and entitled PROTEIN MODIFICATION OF LIVING CELLS USING SORTASE, and in and to the application and all corresponding provisional, non-provisional, national stage, 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 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, we agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, national stage, 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 patent to the Assignee;
4. 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
5. 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.

3/4/15

Date

Inventor: Hidde L. Ploegh

Address: 1 Toxteth Street

Brookline, Massachusetts 02445

United States of America

Citizenship: Netherlands

STATE/Commonwealth of

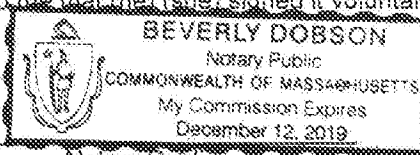
COUNTY OF

Massachusetts  
Middlesex

On this 4th day of March, 2015, before me, the undersigned notary public,  
personally appeared Hidde L. Ploegh, proved to me through satisfactory evidence of  
identification, which were MA 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



Notary Public

My commission expires:

12/12/19

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Lee Kim Swee

Address: 27 Bolton Street

Somerville, Massachusetts 02143

United States of America

Citizenship:

Witness:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Witness:

\_\_\_\_\_  
Date

\_\_\_\_\_  
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Date

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Inventor: Hidde L. Ploegh

Address: 1 Toxteth Street

Brookline, Massachusetts 02445

United States of America

Citizenship: Netherlands

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_;

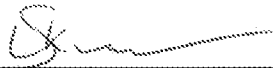
On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
personally appeared \_\_\_\_\_ Hidde L. Ploegh \_\_\_\_\_, proved to me through satisfactory evidence of  
identification, which were \_\_\_\_\_,  
to be the person who signed the preceding or attached document 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

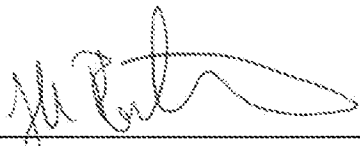
My commission expires: \_\_\_\_\_

3/12/2015  
Date

Inventor:   
Lee Kim Swee  
Address: 27 Bolton Street Untere Strasse 24  
Somerville, Massachusetts 02143 69117 Heidelberg  
United States of America Germany  
Citizenship:

LKS  
3/12/15

Witness:  
3/12/2015  
Date

  
Signature

Name: Jan Reiting  
Address: Seingasse 4  
69117 Heidelberg  
Germany

Witness:  
3/12/2015  
Date

  
Signature

Name: YVONNE STEINHILBER  
Address: RATHAUSSTR. 50  
69126 HEIDELBERG, GERMANY