

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>Roberto Polakiewicz</td> <td>08/16/2012</td> </tr> <tr> <td>Wan Cheung Cheung</td> <td>08/14/2012</td> </tr> <tr> <td>John Edward Rush II</td> <td>08/10/2012</td> </tr> <tr> <td>Sean Andre Beausoleil</td> <td>08/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Roberto Polakiewicz	08/16/2012	Wan Cheung Cheung	08/14/2012	John Edward Rush II	08/10/2012	Sean Andre Beausoleil	08/10/2012
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<table border="1"> <tr> <td>Name:</td> <td>Cell Signaling Technology, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>3 Trask Lane</td> </tr> <tr> <td>City:</td> <td>Danvers</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01923</td> </tr> </table>		Name:	Cell Signaling Technology, Inc.	Street Address:	3 Trask Lane	City:	Danvers	State/Country:	MASSACHUSETTS	Postal Code:	01923
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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>13416582</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13416582						
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CORRESPONDENCE DATA											
Fax Number:	5167424366										
Phone:	516-742-4343										
Email:	eberger@ssmp.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
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Address Line 2:	SUITE 300										
Address Line 4:	GARDEN CITY, NEW YORK 11530										
ATTORNEY DOCKET NUMBER:	28446 (CST-314)										
NAME OF SUBMITTER:	Xiaochun Zhu										

CH \$40.00 13416582

Total Attachments: 4

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PATENT

REEL: 028802 FRAME: 0665

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, ROBERTO POLAKIEWICZ, of Lexington, Massachusetts; WAN CHEUNG CHEUNG, of Lexington, Massachusetts; JOHN EDWARD RUSH II, of Beverly, Massachusetts; and SEAN ANDRE BEAUSOLEIL, of Essex, Massachusetts, hereby assign to: CELL SIGNALING TECHNOLOGY, INC., a corporation of Massachusetts, having a place of business at 3 Trask Lane, Danvers, MA 01923; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of and described and/or claimed in a non-provisional application for United States Patent, entitled "METHODS AND REAGENTS FOR CREATING MONOCLONAL ANTIBODIES," filed on March 9, 2012, and assigned U.S. Serial Number 13/416,582; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

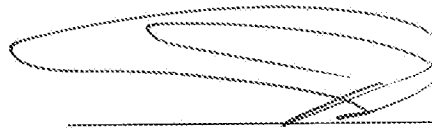
we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or

proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

we hereby covenant that we have the full right to convey the entire right, title, and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

Date: 8/16/2012

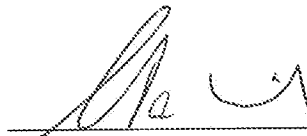
Witness: [Signature]



ROBERTO POLAKIEWICZ

Date: 8/14/12

Witness: [Signature]



WAN CHEUNG CHEUNG

Date: _____

Witness: _____

JOHN EDWARD RUSH II

Date: 8/10/2012

Witness: [Signature]



SEAN ANDRE BEAUSOLEIL

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, ROBERTO POLAKIEWICZ, of Lexington, Massachusetts; WAN CHEUNG CHEUNG, of Lexington, Massachusetts; JOHN EDWARD RUSH II, of Beverly, Massachusetts; and SEAN ANDRE BEAUSOLEIL, of Essex, Massachusetts, hereby assign to: CELL SIGNALING TECHNOLOGY, INC., a corporation of Massachusetts, having a place of business at 3 Trask Lane, Danvers, MA 01923; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of and described and/or claimed in a non-provisional application for United States Patent, entitled "METHODS AND REAGENTS FOR CREATING MONOCLONAL ANTIBODIES," filed on March 9, 2012, and assigned U.S. Serial Number 13/416,582; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

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we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or

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Date: _____

ROBERTO POLAKIEWICZ

Witness: _____

Date: _____

WAN CHEUNG CHEUNG

Witness: _____

Date: August 10, 2012



JOHN EDWARD RUSH II

Witness: _____

Date: _____

SEAN ANDRE BEAUSOLEIL

Witness: _____