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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3327188

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KONRAD KARCZEWSKI	11/23/2012
MICHAEL SNYDER	12/13/2012
ATUL J. BUTTE	12/05/2012
JOEL T. DUDLEY	12/10/2012
MICHAEL CHERRY	12/13/2012
ALAN BOYLE	12/13/2012
EURIE HONG	12/10/2012
JULIE PARK	04/24/2015

RECEIVING PARTY DATA

Name:	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
Street Address:	1705 EL CAMINO REAL
City:	PALO ALTO
State/Country:	CALIFORNIA
Postal Code:	94306

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13592292

CORRESPONDENCE DATA

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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.

Phone: 949.852.0000
Email: pair@kppb.com
Correspondent Name: KPPB LLP

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Address Line 4: ANAHEIM, CALIFORNIA 92806

ATTORNEY DOCKET NUMBER: \$31-03829

NAME OF SUBMITTER: TRUDI THOMPSON

SIGNATURE:	/tt/
DATE SIGNED:	04/27/2015
Total Attachments: 11	
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RECORDATION FORM COVER SHEET PATENTS ONLY			
***************************************	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.		
1. Name of conveying party(ies) Konrad Karczewski, Michael Snyder, Atul J. Butte, Joel T. Dudley, Michael Cherry, Alan Boyle, Eurie Hong, Julie Park Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 11/23/12; 12/13/12; 12/10/12; 12/13/12; 12/13/12; X Assignment Merger Security Agreement Change of Name Joint Research Agreement	Name and address of receiving party(ies) The Board of Trustees of the Leland Stanford Name: Junior University Internal Address:		
Government Interest Assignment Executive Order 9424, Confirmatory License Other	Country: US Zip: 94306 Additional name(s) & address(es) attached? Yes X No		
4. Application or patent number(s): This A. Patent Application No.(s) 13/592292	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s) ached? Yes × No		
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:		
Name: <u>KPPB LLP</u>	7. Total fee (37 CFR 1.21(h) & 3.41) \$		
Internal Address: Suite 1050 Street Address: 2400 E. Katella	Authorized to be charged to deposit account		
Street Address 2400 L. Natella	None required (government interest not affecting title)		
City: Anaheim	8. Payment Information		
State: CA Zip: 92806 Phone Number: 949.852.0000 Docket Number: S31-03829 Email Address: pair@kppb.com	Deposit Account Number 50-4407 Authorized User Name		
9. Signature: /Jacqueline D. Stroncek/	April 27, 2015		
Signature Jacqueline D. Stroncek Name of Person Signing Documents to be recorded (including cover shee Mall Stop Assignment Recordation Services, Director o	Date Total number of pages including cover sheet, attachments, and documents. 11 t) should be faxed to (571) 273-0140, or malled to: If the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450		

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Konrad Karczewski, Michael Snyder, Atul J. Butte, Joel T. Dudley, Michael Cherry, Alan Boyle, and Eurie Hong, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of Invention: Method and System for the Use of Biomarkers for Regulatory

Dysfunction in Disease

Date(s) of execution of Declaration:

Filing Date: 22-AUG-2012 Application No.: 13592292

WHEREAS, THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY located at 1705 El Camino Real, Palo Alto, CA 94306-1160, a university located in the United States, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents do assign to Assignee all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has signed his name on the date indicated.

Full Name:	Konrad Karczewski
Residence Address:	209 Running Farm Lane 105 Stanford, CA 94305
Mailing Address:	
Check if same as above [X]	
Citizenship: USA	ash)
Dated:11/23/12	Konrad Karczewski
Full Name: Residence Address:	Michael Snyder
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	Michael Snyder
Full Name: Residence Address:	Atul J. Butte
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	Atul I Rutto

IN TESTIMONY WHEREOF, Assignor has signed his name on the date indicated.

Full Name: Residence Address:	Konrad Karczewski
Mailing Address:	
Check if same as above [X]	
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Dated:	Konrad Karczewski
Full Name: Residence Address: 949 Cottrell Way, Stanford, CA 94	Michael Snyder 305
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Check if same as above [X]	
Citizenship: USA	
Dated: 12/13/2012	Michael Snyder
Full Name: Residence Address:	Atul J. Butte
Mailing Address:	
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Citizenship:	
Dated:	Atul J. Butte

IN TESTIMONY WHEREOF, Assignor has signed his name on the date indicated.

Full Name: Residence Address:	Konrad Karczewski
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	
	Konrad Karczewski
Full Name: Residence Address:	Michael Snyder
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	
	Michael Snyder
Full Name: Residence Address: 2020 Mon	Atul J. Butte form, fre fare, CA 94025
Mailing Address:	1 av 4, 6/7 7 7025
Check if same as above [X]	
Citizenship: USA	
Dated: 12/5/2012	Atul J. Butte

Full Name: Residence Address:	Joel T. Dudley 136 Soundview Ave, Rye, NY 10580
Mailing Address:	
Check if same as above [X]	
Citizenship:	1 10
Dated: 12/10/2012	Joel T. Dudley
Full Name: Residence Address:	Michael Cherry
Mailing Address:	
Check if same as above [X]	
Citizenship: United States of Am	erica
Dated:	Michael Cherry
Full Name: Residence Address:	Alan Boyle
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	
	Alan Boyle

Full Name: Residence Address:	Joel T. Dudley
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	Joel T. Dudley
Full Name: Residence Address:	J. Michael Cherry 921 Casanueva Place Stanford, CA 94305
Mailing Address:	
Check if same as above [X]	
Citizenship:	USA
Dated: December 13, 2012	J. Michael Chury J. Michael Cherry
Full Name: Residence Address:	Alan Boyle
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	
	Alan Boyle

Full Name: Residence Address:	Joel T. Dudley
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	Joel T. Dudley
Full Name: Residence Address:	Michael Cherry
Mailing Address:	
Check if same as above [X]	
Citizenship:	
Dated:	Michael Cherry
Full Name: Residence Address:	Alan Boyle 100 Loyola Ave Menlo Park CA 94025
Mailing Address:	
Check if same as above [X]	
Citizenship: Dated: <u>December 13, 2012</u>	United States of America
	Alan Boyle

Full Name: Residence Address:	Eurie Hong 227 Ada Ave, Unit C
	Mountain View, CA 94043
Mailing Address:	
Check if same as above [X]	
Citizenship:	USA
	Guyt DP2
Dated:12-10-2012	
	Eurie Hong

ASSIGNMENT

ASSIGNMENT OF APPLICATION

THIS ASSIGNMENT, by Konrad Karczewski, residing in Stanford, California, USA Michael Snyder, residing in Stanford, California, USA Atul J. Butte, residing in Menlo Park, California, USA. Joel T. Dudley, residing in Rye, New York, USA Eurie Hong, residing in Mountain View, California, USA Alan Boyle, residing in Menlo Park, California, USA J. Michael Cherry, residing in Stanford, California, USA Julie Park, residing in Mountain View, California, USA (hereinafter referred to as the ASSIGNORS):

WHEREAS, said ASSIGNORS have invented certain new and useful improvements in:

"Method and System for the Use of Biomarkers for Regulatory Dysfunction in Discase"

filed on August 22, 2012, as U.S. Patent Application No. 13/592292, and listing the above named persons as inventors.

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, a non-profit organization duly organized under and pursuant to the laws of California, and having its principal place of business at 1705 El Camino Real, Palo Alto, California 94306-1106, (hereinafter referred to as the ASSIGNEE) is desirous of acquiring the entire right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefore and thereon:

NOW THEREFORE, for good and valuable considerations, said ASSIGNORS sell, assign, transfer to the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefore and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said ASSIGNEE, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the ASSIGNORS, had this sale and assignment not been made.

AND for the same consideration, the said ASSIGNORS hereby covenant and agree to and with said ASSIGNEE, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said ASSIGNORS are the lawful owners of the entire right, title and interest in and to said invention and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said ASSIGNORS have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, the said ASSIGNORS hereby covenant and agree to and with said ASSIGNEE, its successors, legal representatives and assigns, that said ASSIGNORS will, whenever counsel of said ASSIGNEE, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and

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Docket No: \$31-03829

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documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said ASSIGNEE, its successors, legal representatives and assigns, but at the cost and expense of said ASSIGNEE, its successors, legal representatives and assigns.

AND the said ASSIGNORS hereby requests the Commissioner of Patents to issue said Letters Patent of the United States to said ASSIGNEE as the ASSIGNEE of said invention and the Letters Patent to be issued thereon for the use and behalf of said ASSIGNEE, its successors, legal representatives and assigns.

Date	Name of Inventor	Konrad Karczewski
Date	Name of Inventor	Michael Snyder
Date	Name of Inventor	Atul J. Butte
Date	Name of Inventor	Joel T. Dudley
Date	Name of Inventor	Eurie Hong
Date	Name of Inventor	Alan Boyle
Date	Name of Inventor	J. Michael Cherry
Date 4/24/15	Name of Inventor	Allie Park