

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7257103

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID M. KURTZ	12/08/2020
MAXIMILIAN DIEHN	01/11/2021
ARASH ASH ALIZADEH	03/10/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
<b>Street Address:</b>	BUILDING 170, THIRD FLOOR, MAIN QUAD
<b>Internal Address:</b>	P.O. BOX 20386
<b>City:</b>	STANFORD
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94305-2038
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17455209
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)852-0004
<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>	9498520000
<b>Email:</b>	pair@kppb.com
<b>Correspondent Name:</b>	KPPB LLP
<b>Address Line 1:</b>	2190 S. TOWNE CENTRE PLACE
<b>Address Line 2:</b>	SUITE 300
<b>Address Line 4:</b>	ANAHEIM, CALIFORNIA 92806
<b>ATTORNEY DOCKET NUMBER:</b>	S31-06454.PCT.CON.02
<b>NAME OF SUBMITTER:</b>	LESLIE PARK
<b>SIGNATURE:</b>	/Leslie Park/
<b>DATE SIGNED:</b>	03/31/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 10</b>	

source=06454PCTCON02assigndec#page1.tif  
source=06454PCTCON02assigndec#page2.tif  
source=06454PCTCON02assigndec#page3.tif  
source=06454PCTCON02assigndec#page4.tif  
source=06454PCTCON02assigndec#page5.tif  
source=06454PCTCON02assigndec#page6.tif  
source=06454PCTCON02assigndec#page7.tif  
source=06454PCTCON02assigndec#page8.tif  
source=06454PCTCON02assigndec#page9.tif  
source=06454PCTCON02assigndec#page10.tif

**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.

<b>1. Name of conveying party(ies)</b> David M. Kurtz; Maximilian Diehn; Arash Ash Alizadeh  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies)</b> Name: <u>The Board of Trustees of the Leland Stanford Junior University</u> Internal Address: <u>P.O. Box 20386</u>  Street Address: <u>Building 170, Third Floor, Main Quad</u>  City: <u>Stanford</u> State: <u>CA</u> Country: <u>US</u> Zip: <u>94305-2038</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) <u>12/08/2020; 01/11/2021; 03/10/2021</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____			
<b>4. Application or patent number(s):</b> <input checked="" type="checkbox"/> This document serves as an Oath/Declaration (37 CFR 1.63). A. Patent Application No.(s) <u>17/455,209</u>  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		B. Patent No.(s)	
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>KPPB LLP</u> Internal Address: <u>Suite 300</u>  Street Address: <u>2190 S. Towne Centre Place</u>  City: <u>Anaheim</u> State: <u>CA</u> Zip: <u>92806</u> Phone Number: <u>949.852.0000</u> Docket Number: <u>S31-06454.PCT.CON.02</u> Email Address: <u>pair@kppb.com</u>		<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ _____ <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
<b>9. Signature:</b> <u>/Charles A. Thomas/</u> Signature <u>March 31, 2022</u> Date  <u>Charles A. Thomas</u> Name of Person Signing  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450		<b>8. Payment Information</b>  Deposit Account Number _____ Authorized UserName _____  Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px;">10</span>	

COMBINED ASSIGNMENT AND DECLARATION

Attorney Docket No.: S31-06454.PCT  
Stanford Docket No.: S19-385 PCT

WHEREAS, David M. Kurtz of San Francisco, CA, Maximilian Diehn of San Carlos, CA, and Arash Ash Alizadeh of San Mateo, CA is/are the inventor(s) of an invention entitled "Methods and Systems for Analyzing Nucleic Acid Molecules" that is the subject matter of: (check all that apply)

- a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ##/###,### filed on Month Day, Year;
- an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ##/###,### filed on Month Day, Year and/or executed on even date herewith; and
- an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Patent and Trademark Office by Application No. PCT/US2020/059526 filed on November 6, 2020 and/or executed on even date herewith;

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, a trust with corporate powers under the laws of the State of California and the United States of America, and having offices at Building 170, Third Floor, Main Quad, P.O. Box 20386, Stanford, CA 94305-2038 USA, ("Assignee") is desirous of acquiring the entire right, title, and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;


NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title, and interest in and to the invention, the above-identified applications, the right to claim priority, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries, and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I represent to the Assignee, its successors, and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation, or proceeding.

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any

willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

  
\_\_\_\_\_  
David M. Kurtz

12/8/20  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Maximilian Diehn

\_\_\_\_\_  
Date

\_\_\_\_\_  
Arash Ash Alizadeh

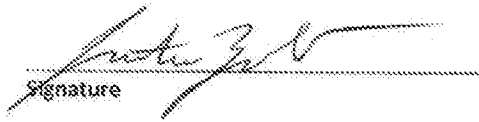
\_\_\_\_\_  
Date

S19-385

SIGNED FOR AND ON BEHALF OF THE ASSIGNEE,  
The Board of Trustees of The Leland Stanford Junior University

March 30, 2021

Date

  
Signature

Justin Zahrt  
Name

Assistant Director, Intellectual Property  
Position

3 / Page

COMBINED ASSIGNMENT AND DECLARATION

Attorney Docket No.: S31-06454.PCT  
Stanford Docket No.: S19-385 PCT

WHEREAS, David M. Kurtz of San Francisco, CA, Maximilian Diehn of San Carlos, CA, and Arash Ash Alizadeh of San Mateo, CA is/are the inventor(s) of an invention entitled "Methods and Systems for Analyzing Nucleic Acid Molecules" that is the subject matter of: (check all that apply)

- a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ##/###,### filed on Month Day, Year;
- an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ##/###,### filed on Month Day, Year and/or executed on even date herewith; and
- an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Patent and Trademark Office by Application No. PCT/US2020/059526 filed on November 6, 2020 and/or executed on even date herewith;

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, a trust with corporate powers under the laws of the State of California and the United States of America, and having offices at Building 170, Third Floor, Main Quad, P.O. Box 20386, Stanford, CA 94305-2038 USA, ("Assignee") is desirous of acquiring the entire right, title, and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title, and interest in and to the invention, the above-identified applications, the right to claim priority, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries, and appoint Assignee the common representative in the above identified international application and any international application for the invention.


I represent to the Assignee, its successors, and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation, or proceeding.

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any

willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

\_\_\_\_\_  
David M. Kurtz

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Maximilian Diehn

\_\_\_\_\_  
Date

1/11/2021

\_\_\_\_\_  
Arash Ash Alizadeh

\_\_\_\_\_  
Date

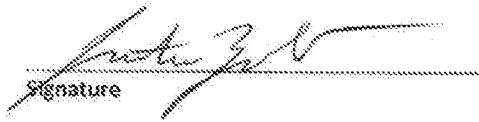


S19-385

SIGNED FOR AND ON BEHALF OF THE ASSIGNEE,  
The Board of Trustees of The Leland Stanford Junior University

March 30, 2021

Date

  
Signature

Justin Zahrt

Name

Assistant Director, Intellectual Property

Position

3 / Page

COMBINED ASSIGNMENT AND DECLARATION

Attorney Docket No.: S31-06454.PCT  
Stanford Docket No.: S19-385 PCT

WHEREAS, David M. Kurtz of San Francisco, CA, Maximilian Diehn of San Carlos, CA, and Arash Ash Alizadeh of San Mateo, CA is/are the inventor(s) of an invention entitled "Methods and Systems for Analyzing Nucleic Acid Molecules" that is the subject matter of: (check all that apply)

- a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ##/###,### filed on Month Day, Year;
- an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. ##/###,### filed on Month Day, Year and/or executed on even date herewith; and
- an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Patent and Trademark Office by Application No. PCT/US2020/059526 filed on November 6, 2020 and/or executed on even date herewith;

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, a trust with corporate powers under the laws of the State of California and the United States of America, and having offices at Building 170, Third Floor, Main Quad, P.O. Box 20386, Stanford, CA 94305-2038 USA, ("Assignee") is desirous of acquiring the entire right, title, and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title, and interest in and to the invention, the above-identified applications, the right to claim priority, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries, and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I represent to the Assignee, its successors, and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation, or proceeding.

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any

willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

\_\_\_\_\_  
David M. Kurtz

\_\_\_\_\_  
Date

\_\_\_\_\_  
Maximilian Diehn

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Arash Ash Alizadeh

\_\_\_\_\_  
Date

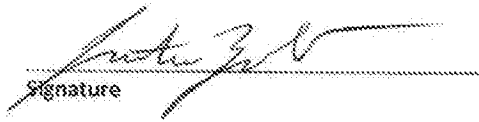
3/10/21

S19-385

SIGNED FOR AND ON BEHALF OF THE ASSIGNEE,  
The Board of Trustees of The Leland Stanford Junior University

March 30, 2021

Date

  
Signature

Justin Zahrt

Name

Assistant Director, Intellectual Property

Position

3 / Page