

## PATENT ASSIGNMENT COVER SHEET

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Assignment ID: PAT122225

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Jingyue Ju	07/18/2018
Xiaoxu Li	07/17/2018
Xin Chen	07/17/2018
Zengmin Li	07/17/2018
Shiv Kumar	07/17/2018
Shundi Shi	07/17/2018
Cheng Guo	07/17/2018
Jianyi Ren	07/17/2018
Min-Kang Hsieh	07/17/2018
Minchen Chien	07/17/2018
Chuanjuan Tao	07/17/2018
Ece Erturk	07/17/2018
Sergey Kalachikov	07/17/2018
James J. Russo	07/17/2018
<b>RECEIVING PARTY DATA</b>	
<b>Company Name:</b>	The Trustees of Columbia University in the City of New York
<b>Street Address:</b>	412 Low Memorial Library, 535 W 116th Street
<b>City:</b>	New York
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10027
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17818705
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	2123368000
<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>	
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**Correspondent Name:** Gary J Gershik  
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**ATTORNEY DOCKET NUMBER:** 88050-AAAA-PCT-US/GJG/YX

**NAME OF SUBMITTER:** Emily Luse

**SIGNATURE:** Emily Luse

**DATE SIGNED:** 02/13/2024

**Total Attachments: 5**

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***Assignment of Non-Provisional Application***

*In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned,*

Jingyue Ju, of 267 Marietta Street, Englewood Cliffs, NJ 07632, U.S.A.; Xiaoxu Li, of 403 W 115th Street, Apt 22, New York, NY 10025, U.S.A.; Xin Chen, 567 W 125th Street, #6C, New York, NY 10027, U.S.A.; Zengmin Li, of 29-10 137th Street, Flushing, NY 11354, U.S.A.; Shiv Kumar, 21 Muirhead Court, Belle Mead, NJ 08502, U.S.A.; Shi Shundi, of 77-05 95th Ave, Ozone Park, NY 11416, U.S.A.; Cheng Guo, of 23 Bay 8th Street, 1st Floor, Brooklyn, NY 11228, U.S.A.; Jianyi Ren, of 536 W 113th Street, #35, New York, NY 10025, U.S.A.; Min-Kang Hsieh, of 521 W 122nd Street, Apt. 34, New York, NY 10027, U.S.A.; Minchen Chien, of 273 Tenafly Road, Tenafly, NJ 07670, U.S.A.; Chuanjuan Tao, of 3 Horizon Road, Apt 1211, Fort Lee, NJ 07024, U.S.A.; Ece Erturk, of 435 W 119th Street, 2L, New York, NY 10027; Sergey Kalachikov, of 5425 Valles Avenue, Apt. 2J, Bronx, NY 10471, U.S.A.; and James J. Russo, of 60 Haven Avenue, Apt. 25E, New York, NY 10032, U.S.A.

Effective September 28, 2016

***Hereby sell, assign and transfer to The Trustees of Columbia University in the City of New York, a corporation of the State of New York, having a place of business at 412 Low Memorial Library, 535 W. 116<sup>th</sup> St., in the County of New York and State of New York, 10027, its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on 07/17/18 and 07/18/18 and is entitled***

***DESIGN AND SYNTHESIS OF NOVEL DISULFIDE LINKER BASED NUCLEOTIDES AS REVERSIBLE TERMINATORS FOR DNA SEQUENCING BY SYNTHESIS (U.S. Serial No. 15/763,364, filed March 26, 2018, §371 national stage of PCT International Application No. PCT/US2016/054236, filed September 28, 2016, claiming the benefit of U.S. Provisional Applications Nos. 62/257,102, filed November 18, 2015 and 62/233,950, filed September 28, 2015)***

***and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;***

***Authorize and request the Commissioner for Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;***

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.



Eugene Ju

LSJ

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\_\_\_\_\_ E.S.