

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ERKAI LIU	07/02/2019
AO CHEN	07/01/2019
WENWEI ZHANG	07/02/2019
XUN XU	07/05/2019
<b>RECEIVING PARTY DATA</b>	
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<b>City:</b>	SHENZHEN, GUANGDONG
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518083
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16474030
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	CCPIT-010
<b>NAME OF SUBMITTER:</b>	JAMES S. KEDDIE
<b>SIGNATURE:</b>	/James S. Keddie/
<b>DATE SIGNED:</b>	08/15/2019
<b>Total Attachments: 5</b>	
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## ASSIGNMENT OF APPLICATION

Atty Docket No. CCPIT-010

THIS ASSIGNMENT, by **Erkai LIU**, residing in Shenzhen, Guangdong, China, **Ao CHEN**, residing in Shenzhen, Guangdong, China, **Wenwei ZHANG** residing in Shenzhen, Guangdong, China, and **Xun XU**, residing in Shenzhen, Guangdong, China (hereinafter referred to as the assignors), respectively, witnesseth:

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

### "SINGLE FLUORESCENT DYE-BASED SEQUENCING METHOD"

- ☒ for which an application was filed on June 26, 2019 as U.S. Application Serial No. 16/474,030.  
☐ for which an application for a United States Patent was executed on \_\_\_\_, and

WHEREAS, **BGI SHENZHEN**, located at **Main Building Beishan Industrial Zone, Yantian District, Shenzhen, Guangdong 518083, China** (hereinafter referred to as the assignee) is desirous of acquiring said assignors' right, title and interest in and to said invention and said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of said assignors' right, title and interest in and to, as well as the right to claim priority of, the above-mentioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor 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, 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, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment 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, 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, 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 or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and 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 said assignors hereby request 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 2019-07-02 Name of Inventor Erkai Liu  
Erkai LIU

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Ao CHEN

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Wenwei ZHANG

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Xun XU

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Atty Docket No. CCPIT-010

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

**"SINGLE FLUORESCENT DYE-BASED SEQUENCING METHOD"**

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☐ for which an application for a United States Patent was executed on \_\_\_\_\_, and

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NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of said assignors' right, title and interest in and to, as well as the right to claim priority of, the above-mentioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor 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.

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AND said assignors hereby request 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 Erkai LIU

Date 2019.7.1 Name of Inventor W. J.  
Ao CHEN

Date \_\_\_\_\_ Name of Inventor Wenwei ZHANG

Date \_\_\_\_\_ Name of Inventor Xun XU

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Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Erkai LIU

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Ao CHEN

Date 2019.07.02 Name of Inventor 章文偉  
Wenwei ZHANG

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Xun XU

PATENT

REEL: 050068 FRAME: 0122

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Atty Docket No. CCPIT-010

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Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Erkai LIU

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Ao CHEN


Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_  
Wenwei ZHANG

Date 2019. 7.5 Name of Inventor \_\_\_\_\_  
Xun XU 

ASSIGNMENT OF APPLICATION

Atty Docket No. CCPIT-010

Hereby accepted on behalf of the assignee

 July 2, 2019

Signature

2019-07-02

Wei XING

Date

Name (print)

IP Director

BGI SHENZHEN

Title and Company