

## 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>
	JIAN LI	07/13/2015
	SHIPING CHEN	07/14/2015
	XIANDONG ZHANG	07/13/2015
	YING LIU	07/13/2015
	CAIFEN ZHANG	07/13/2015
	TAO LIU	07/14/2015
	MEIRU ZHAO	07/13/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BGI GENOMICS CO., LTD.	
<b>Street Address:</b>	BUILDING NO. 7, BGI PARK, NO. 21 HONGAN 3RD STREET	
<b>Internal Address:</b>	YANTIAN DISTRICT	
<b>City:</b>	SHENZHEN	
<b>State/Country:</b>	CHINA	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	13807660	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(302)467-4201	
<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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<b>ATTORNEY DOCKET NUMBER:</b>	074278-0012-US-515107	
<b>NAME OF SUBMITTER:</b>	DANIEL A. RUBE	
<b>SIGNATURE:</b>	/Daniel A. Rubé/	
<b>DATE SIGNED:</b>	07/24/2015	

PATENT

**Total Attachments: 3**

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## ASSIGNMENT BY INVENTOR

**THIS ASSIGNMENT**, by Jian Li, Shiping Chen, Xiandong Zhang, Ying Liu, Caifen Zhang, Tao Liu and Meiru Zhao (hereinafter referred to as Assignors), residing at Main Building, Beishan Industrial Zone, Beishan Road 146, Yantian District, Shenzhen, Guangdong 518083, China:

**WHEREAS**, Assignors have invented certain new and useful improvements in APPLICATION OF A PCR SEQUENCING METHOD, BASED ON DNA BARCODING TECHNIQUE AND DNA INCOMPLETE SHEARING STRATEGY, IN HLA GENOTYPING, set forth in U.S. Patent Application Serial No. 13/807,660, filed on April 8, 2013; and

**WHEREAS**, BGI Genomics Co., Ltd., a Corporation organized under and pursuant to the laws of China, having its principal place of business Building No. 7, BGI Park, No. 21 Hongan 3rd Street, Yantian District, Shenzhen, China (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon,

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that 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, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will 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 any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

DRINKER BIDDLE & REATH LLP

All practitioners at Customer Number 123223

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 2015-07-13 Signature: Jian Li  
Jian Li

Date: 2015-07-14 Signature: Shiping Chen  
Shiping Chen

Date: 2015-07-13 Signature: Xiandong Zhang  
Xiandong Zhang

Date: July 13, 2015 Signature: Ying Liu  
Ying Liu

Date: 2015-07-13 Signature: Caifen Zhang  
Caifen Zhang

Date: 2015-07-14 Signature: Tao Liu  
Tao Liu

Date: July 13, 2015 Signature: Meiru Zhao  
Meiru Zhao

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