

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	NUNC PRO TUNC ASSIGNMENT
<b>EFFECTIVE DATE:</b>	10/13/2014
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HONGYAN HAN	04/07/2017
CHUNYU GENG	04/05/2017
GUANYING GUO	04/06/2017
WENWEI ZHANG	04/07/2017
HUI JIANG	04/07/2017
YUAN JIANG	04/12/2017
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<b>Street Address:</b>	MAIN BUILDING 11F-3, BEISHAN INDUSTRIAL ZONE, BEISHAN ROAD 146, YANTIAN DISTRICT
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<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518033
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15518760
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<b>ATTORNEY DOCKET NUMBER:</b>	B-9116PCT 630865-0
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<b>SIGNATURE:</b>	/Daifei Zhang L0733/

<b>DATE SIGNED:</b>	05/16/2017
<b>Total Attachments: 3</b> source=17F00359US_A-1_assignment_update#page1.tif source=17F00359US_A-1_assignment_update#page2.tif source=17F00359US_A-1_assignment_update#page3.tif	

## ASSIGNMENT

WHEREAS, we, Hongyan HAN of Shenzhen, China, Chunyu GENG of Shenzhen, China, Guanying GUO of Shenzhen, China, Wenwei ZHANG of Shenzhen, China, Hui JIANG of Shenzhen, China, and Yuan JIANG of Shenzhen, China, ("Assignors"), are inventors of an invention entitled "NUCLEIC ACID FRAGMENTATION METHOD AND SEQUENCE COMBINATION" that is the subject matter of: (check all that apply)

- ☐ a U.S. application for Letters Patent which claims the priority to Chinese Patent Application No. \_\_\_\_\_ filed on \_\_\_\_\_,
- ☒ an application made under the Patent Cooperation Treaty which is identifiable at WIPO by Application No. PCT/CN2014/088509 filed on October 13, 2014,
- ☒ an application for Letters Patent which is identifiable in the Patent Office of the U.S. by Application No. 15/518,760 filed on April 12, 2017;

WHEREAS, BGI SHENZHEN CO., LIMITED, a corporation organized and existing under the laws of China ("Assignee"), and having offices at Main Building 11f-3, Beishan Industrial Zone, Beishan Road 146, Yantian District, Shenzhen, Guangdong 518033 China, 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

- ☒ in the United States
- ☐ in all other countries or jurisdictions;

"NOW THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged,

- a) Assignors agree to transfer, and
- b) Assignors do hereby transfer,

to Assignee, its successors and assigns, effective as of October 13, 2014, nunc pro tunc, Assignors' entire right, title and interest in the above-named countries and jurisdictions in and to the following including the right to sue for past infringement: the invention, the above-identified applications, all applications from which any of the above-identified applications claim priority, corresponding U.S. and non-U.S. applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent for the applications, 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 Assignors 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.

Assignors authorize the U.S. Attorneys handling the U.S. case for this matter and the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. Assignors 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 the above named countries and jurisdictions and appoint Assignee the common representative in the above-identified international application and any international application for the invention.

Assignors represent to the Assignee, its successors and assigns, that Assignors shall not execute any writing or do any act whatsoever conflicting with this Assignment. Assignors, its 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

Assignment of Ren, Dong, Duo Zhang,  
Jiang, and Jiang to RSC PATENTHEALTH, LIMITED

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 and jurisdictions, including without limitation providing testimony in any related interference, litigation or proceeding. To the extent that Assignee, its executors or administrators are unable or unavailable to execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as Assignee, its successors and assigns may deem necessary 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 and jurisdictions, Assignee, its executors or administrators hereby authorizes Assignee, its successors and assigns to act on Assignee's behalf.

If any provision of this Assignment is held unenforceable or in conflict with the law of any jurisdiction, the validity of the remaining provisions will not be affected by such holding and the part held unenforceable in or in conflict with the law of one jurisdiction will remain in effect for other jurisdictions until held unenforceable or in conflict with the law of that jurisdiction.

彭明辉

Minghui Peng

(Inventor / Assignor)

2017.4

Date

郭永刚

Guoping GONG

(Inventor / Assignor)

Date

2017.4.5

郭永刚

Guoping GONG

(Inventor / Assignor)

2017.4.6

Date

Assignment of right, Geng, Gao, Zhang,  
Jiang and Jiang to BUI SING CHEN CO., LIMITED

姜文斌

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(Inventor / Assignor)

Date 2017. 4. 7

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Date 2017. 4. 7

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Date 2017. 4. 12