

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JUNGBAE KIM</td> <td>12/04/2013</td> </tr> <tr> <td>SUNG-GIL HONG</td> <td>12/04/2013</td> </tr> <tr> <td>BYOUNGSOO LEE</td> <td>12/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	JUNGBAE KIM	12/04/2013	SUNG-GIL HONG	12/04/2013	BYOUNGSOO LEE	12/04/2013		
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<table border="1"> <tr> <td>Name:</td> <td>KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION</td> </tr> <tr> <td>Street Address:</td> <td>1, ANAM-DONG 5-GA, SEONGBUK-GU</td> </tr> <tr> <td>City:</td> <td>SEOUL</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>136-713</td> </tr> </table>		Name:	KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION	Street Address:	1, ANAM-DONG 5-GA, SEONGBUK-GU	City:	SEOUL	State/Country:	KOREA, REPUBLIC OF	Postal Code:	136-713
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CORRESPONDENCE DATA											
<p>Fax Number: (704)444-1111</p> <p>Phone: 704-444-1000</p> <p>Email: patent-mail@alston.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: R. FLYNT STREAN</p> <p>Address Line 1: 101 S. TRYON STREET, SUITE 4000</p> <p>Address Line 2: ALSTON &amp; BIRD LLP</p> <p>Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000</p>											
ATTORNEY DOCKET NUMBER:	054101/438988										
NAME OF SUBMITTER:	R. FLYNT STREAN										
Signature:	/R.FlyntStrean/										

Date:

01/17/2014

Total Attachments: 2

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## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION

1, Anam-dong 5-ga, Seongbuk-gu  
Seoul, 136-713 Republic of Korea

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"MANUFACTURING METHOD FOR SILICA ENCAPSULATED SINGLE-ENZYME NANOPARTICLES AND SINGLE-ENZYME NANOPARTICLES MANUFACTURED BY MEANS OF METHOD"**

as set forth in this United States Patent Application

- ☐ executed concurrently herewith
- ☐ executed on
- ☒ Application No. 14/112,834; filed October 18, 2013
- ☒ Application claims priority from Application No. PCT/KR2012/004053, filed May 23, 2012, and claims priority from Korean Application No. 10-2011-0048437, filed May 23, 2011, all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions,

PATENT

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specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as May 23, 2011 (the earliest priority date).

2013-12-04

Date



Jungbae Kim

2013-12-04

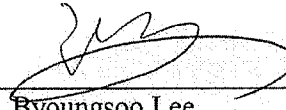
Date



Sung-Gil Hong

2013-12-04

Date



Byoungsoo Lee