#### 502280518 03/21/2013

#### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### CONVEYING PARTY DATA

Name	Execution Date
Ka-Yiu SAN	03/05/2013
George N. BENNETT	03/06/2013
Jian WANG	03/06/2013

#### RECEIVING PARTY DATA

Name:	William Marsh Rice University	
Street Address:	6100 Main Street	
City:	Houston	
State/Country:	: TEXAS	
Postal Code: 77005		

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13696465

#### CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	RICE:2010-071-03US
NAME OF SUBMITTER:	Sparkle T Ellison

Total Attachments: 5

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> PATENT REEL: 030056 FRAME: 0551

OP \$40.00 13696465

ASSIGNMENT

WHEREAS, we, Ka-Yiu SAN; George N. BENNETT and Jian WANG, hereinafter

referred to as "ASSIGNORS," are joint inventors of the invention, patent applications and

patents described in attached Exhibit A.

WHEREAS, William Marsh Rice University ("ASSIGNEE") at 6100 Main Street,

Houston, TX, 77005, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest

in the invention and applications and in any letters patent that may be granted on the same;

THEREFORE, in exchange for good and valuable consideration, the receipt of which is

hereby acknowledged, ASSIGNORS hereby assign to ASSIGNEE the entire right, title and

interest in and to said invention, said applications and any and all letters patent which may be

granted for said invention anywhere throughout the world, including utility patents, petty patents

and design patents, and in any and all divisions, continuations, continuations-in-part and related

patents thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said application to which said foreign

applications are entitled, said invention, applications and all letters patent on said invention to be

held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same

would have been held and enjoyed by ASSIGNORS had this assignment not been made.

ASSIGNORS hereby authorize and request the Commissioner of Patents and

Trademarks to issue all letters patent on said invention to ASSIGNEE.

ASSIGNORS agree at Assignee's expense to execute all instruments and documents

required for the making and prosecution of patents and patent applications, for litigation

regarding letters patent, or for the purpose of protecting title to said invention or letters patent

therefor.

THE PARTIES hereby grant Boulware & Valoir the power to perfect and record this

assignment and to insert any further patent identification that may be necessary or desirable in

order to record this assignment.

**PATENT** REEL: 030056 FRAME: 0552

IN TESTIMONY WHEREOF, ASSIGNORS have signed on the date indicated.

IN WITNESS WHEREOF, I have hereunto set my hand this 5 day of March, 2013.

Octuber 1. Ka-Viu SAN

Declarant: Ka-Yiu SAN

## IN TESTIMONY WHEREOF, ASSIGNORS have signed on the date indicated.

IN WITNESS WHEREOF, I have hereunto set my hand this 6<sup>th</sup> day of March, 2013.

Declarant: George N. BENNETT

Leonge Bennett

PATENT REEL: 030056 FRAME: 0554

# IN TESTIMONY WHEREOF, ASSIGNORS have signed on the date indicated.

**PATENT REEL: 030056 FRAME: 0555** 

### **EXHIBIT A**

APPLICATION NUMBER	FILING DATE	COUNTRY	TITLE
61/356909	June 21, 2010	US	Engineered Bacteria Produce Succinate from Sucrose
PCT/US11/41074	June 20, 2011	WO	Engineered Bacteria Produce Succinate from Sucrose
13/696,465	Nov. 6, 2012	US	Engineered Bacteria Produce Succinate from Sucrose

PATENT REEL: 030056 FRAME: 0556

**RECORDED: 03/21/2013**