

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mr. Ka-Yiu San	10/10/2005
Mr. George N. Bennett	10/10/2005
Ms. Ailen Sanchez	10/29/2005

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11214309

CORRESPONDENCE DATA

Fax Number: (713)427-5099

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Email: susan.b.jensen@bakernet.com

Correspondent Name: Tamsen Valoir, Ph.D.

Address Line 1: 711 Louisiana, Ste. 3400

Address Line 4: Houston, TEXAS 77002

ATTORNEY DOCKET NUMBER:

31175413-011002

NAME OF SUBMITTER:

Tamsen Valoir, Ph.D.

Total Attachments: 3

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PATENT

REEL: 016742 FRAME: 0618

500059135

CH \$40.00 11214309

ASSIGNMENT OF APPLICATION	Docket Number (Optional) 31175413-011002
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Whereas, I/We, Ka-Yiu San of Houston, Texas,
 hereafter referred to as applicant, have invented certain new and useful improvements in

Aerobic Succinate Production in Bacteria

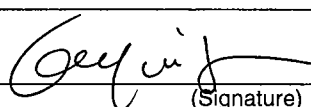
☒ for which a application for a United States Patent was filed on August 29, 2005
 Application Number 11/214,309

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

Whereas, Rice University of _____ here
 referred to as "assignee" whose mailing address is 6100 Main Street, Houston, Texas 77005-1892
 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
 acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell,
 assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
 entire rights, title and interest in and to any and all Patents which may be granted therefor in the United States,
 I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
 States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
 behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent
 may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
 been made.

Executed this 10th day of October, 2005,
 at Houston, Texas

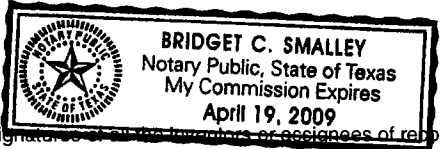


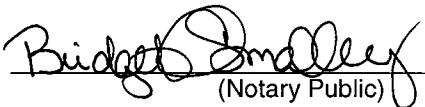
 (Signature)

State of Texas) SS:
 County of Harris)

Before me personally appeared said Ka-Yiu San
 and acknowledged the foregoing instrument to be his free act and deed this 10th
 day of October, 2005.

Seal





 (Notary Public)

NOTE: Signatures of the inventor(s) or assignee(s) of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 3 forms are submitted.

ASSIGNMENT OF APPLICATION	Docket Number (Optional) 31175413-011002
----------------------------------	---

Whereas, I/We, George N. Bennett of Houston, TX,
hereafter referred to as applicant, have invented certain new and useful improvements in

Aerobic Succinate Production in Bacteria

☒ for which an application for a United States Patent was filed on August 29, 2005
Application Number 11/214,309

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


Whereas, Rice University of _____ here
referred to as "assignee" whose mailing address is 6100 Main Street; Houston, Texas 77005-1892
is desirous of acquiring the entire right, title and interest in the same;
Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell,
assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
entire rights, title and interest in and to any and all Patents which may be granted therefor in the United States,
I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent
may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.

Executed this 10th day of October, 2005,
at Houston, Texas

George N. Bennett
(Signature)

State of Texas) SS:
County of Harris)

Before me personally appeared said George N. Bennett
and acknowledged the foregoing instrument to be his free act and deed this 10th
day of October, 2005.



BRIDGET C. SMALLEY
Notary Public, State of Texas
My Commission Expires
April 19, 2009

Bridget Smalley
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 3 forms are submitted.

ASSIGNMENT OF APPLICATION	Docket Number (Optional) 31175413-011002
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Whereas, I/We, Ailen Sanchez of Houston, TX,
hereafter referred to as applicant, have invented certain new and useful improvements in

Aerobic Succinate Production in Bacteria

☒ for which an application for a United States Patent was filed on August 29, 2005
Application Number 11/214,309

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

Whereas, Rice University of _____ here
referred to as "assignee" whose mailing address is 6100 Main Street; Houston, Texas 77005-1892
is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell,
assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
entire rights, title and interest in and to any and all Patents which may be granted therefor in the United States,
I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent
may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.

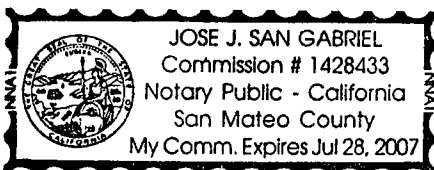
Executed this 29th day of October, 2005,
at Foster City, California

[Signature]
(Signature)

State of California) SS:
County of San Mateo

Before me personally appeared said Ailen Sanchez
and acknowledged the foregoing instrument to be his free act and deed this 29th
day of October, 2005 Her

Seal



[Signature]
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

<input checked="" type="checkbox"/>	*Total of <u>3</u> forms are submitted.
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