

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Matthew S. Croughan	12/11/2010
Nathaniel W. Freund	12/27/2010
RECEIVING PARTY DATA	
Name:	Keck Graduate Institute
Street Address:	535 Watson Drive
City:	Claremont
State/Country:	CALIFORNIA
Postal Code:	91711
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12903046
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ATTORNEY DOCKET NUMBER:	530045.426
NAME OF SUBMITTER:	Mary Anne Mashruwala, Ph.D.

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Total Attachments: 3
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**PATENT
 REEL: 025661 FRAME: 0274**

ASSIGNMENT

WHEREAS, we, Matthew S. Croughan and Nathaniel W. Freund (hereinafter referred to as ASSIGNORS), having post office addresses of 314 Teasdale Drive, Claremont, California 91711; and 12059 Pradera Road, Camarillo, California 93012, respectively, are the listed inventors/applicants of the provisional patent application entitled "NOVEL STRATEGY TO REDUCE LACTIC ACID PRODUCTION AND CONTROL PH IN ANIMAL CELL CULTURE," as filed with the U.S. Patent and Trademark Office on October 12, 2010, and assigned Application No. 12/903,046; this application claims the benefit of U.S. Provisional Application No. 61/250,798, filed on October 12, 2009;

WHEREAS, Keck Graduate Institute (hereinafter referred to as ASSIGNEE), a university of the State of California, having a place of business at 535 Watson Drive, Claremont, California 91711, is desirous of acquiring the entire right, title and interest in and to the provisional patent application and in and to any letters patent(s) that claim the priority benefit of the provisional patent application in the United States and in any and all foreign countries;

NOW, THEREFORE, for valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said provisional patent application and the invention(s) disclosed therein, and any and all letters patent(s) which claim priority to said provisional application and any and all letters patent(s) which claim the invention(s) disclosed therein and which may be granted in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States provisional application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, provisional application and all letters patent(s) on said invention or claiming priority to said provisional application to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale 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 to execute all instruments and documents required for the making and prosecution of applications

for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

December 11, 2010
Date

Matthew S. Croughan
Matthew S. Croughan

State of California

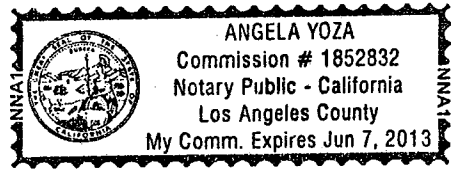
County of LOS ANGELES

On 12/11/2010, before me, ANGELA YOZA, NOTARY PUBLIC
(Here insert name and title of the officer)
personally appeared MATTHEW SHANE CROUGHAN,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Angela Yoza
Signature of Notary Public

(Notary Seal)

December 27, 2010
Date

Nathaniel W. Freund
Nathaniel W. Freund

State of California

County of LOS ANGELES

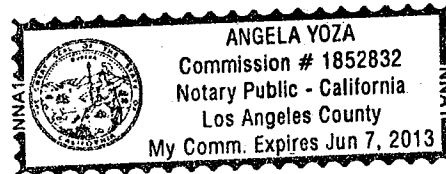
On 12/27/2010, before me, ANGELA YOZA, NOTARY PUBLIC
(Here insert name and title of the officer)
personally appeared NATHANIEL WERNER FREUND,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Angela Yoza
Signature of Notary Public



(Notary Seal)

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