

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5644785

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RYO TAKEUCHI	09/09/2014
JAMES ROBERTS	09/09/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MATRIX GENETICS, LLC
<b>Street Address:</b>	1600 FAIRVIEW AVENUE E
<b>Internal Address:</b>	SUITE 300
<b>City:</b>	SEATTLE
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98102
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16122250
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	LUBI-006/04US 330572-2130
<b>NAME OF SUBMITTER:</b>	ANNE E. FLECKENSTEIN
<b>SIGNATURE:</b>	/Anne E Fleckenstein/
<b>DATE SIGNED:</b>	07/31/2019
<b>Total Attachments: 4</b>	
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Serial Number.....62/047,811  
Filing Date .....September 9, 2014  
Inventorship..... Takeuchi et al.  
Applicant ..... Matrix Genetics, LLC  
Attorney's Docket No. .... M077-0017USP1  
Title: ..... Targeted Mutagenesis in Spirulina

**PATENT ASSIGNMENT**

**PARTIES TO THE ASSIGNMENT**

Assignors:

Ryo Takeuchi  
1903 NE 85th Street, Apt 203  
Seattle, Washington 98115

James Roberts  
2540 Shoreland Drive South  
Seattle, Washington 98144

Assignee:

Matrix Genetics, LLC  
1600 Fairview Avenue E., Suite 300  
Seattle, Washington 98102

**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled  
"Targeted Mutagenesis in Spirulina " for which a provisional application for United States  
Letters Patent was filed on September 9, 2014 and was given U.S. Serial No. 62/047,811;

WHEREAS, Matrix Genetics, LLC (hereinafter referred to as ASSIGNEE), a corporation  
of the State of Washington, having a place of business at 1600 Fairview Avenue E., Suite 300,  
Seattle, Washington, is desirous of acquiring the entire right, title and interest in and to the  
invention and in and to any letters patent that may be granted therefore in the United States  
and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of  
which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE,

the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions 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 application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns 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 therefore.

September 9, 2017  
Date

Ryo Takeuchi  
Ryo Takeuchi

\_\_\_\_\_  
Date

\_\_\_\_\_  
James Roberts

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "Targeted Mutagenesis in Spirulina " for which a provisional application for United States Letters Patent was filed on September 9, 2014 and was given U.S. Serial No. 62/047,811;

WHEREAS, Matrix Genetics, LLC (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington, having a place of business at 1600 Fairview Avenue E., Suite 300, Seattle, Washington, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all

letters patent which may be granted for said invention in the United States of America and its territorial possessions 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 application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns 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 therefore.

Date

Ryo Takeuchi

Date

James Roberts