

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Jane SCHNEIDER</td> <td>03/27/2013</td> </tr> <tr> <td>Soyan LIEBERMAN</td> <td>03/28/2013</td> </tr> <tr> <td>Bo LIU</td> <td>04/14/2013</td> </tr> <tr> <td>Eric MOELLERING</td> <td>03/22/2013</td> </tr> <tr> <td>John VERRUTO</td> <td>03/28/2013</td> </tr> <tr> <td>Amanda SKAGGS</td> <td>03/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jane SCHNEIDER	03/27/2013	Soyan LIEBERMAN	03/28/2013	Bo LIU	04/14/2013	Eric MOELLERING	03/22/2013	John VERRUTO	03/28/2013	Amanda SKAGGS	03/28/2013
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<table border="1"> <tr> <td>Name:</td> <td>Synthetic Genomics, INC.</td> </tr> <tr> <td>Street Address:</td> <td>11149 North Torrey Pines Road</td> </tr> <tr> <td>City:</td> <td>La Jolla</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92037</td> </tr> </table>		Name:	Synthetic Genomics, INC.	Street Address:	11149 North Torrey Pines Road	City:	La Jolla	State/Country:	CALIFORNIA	Postal Code:	92037				
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PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13693585</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13693585										
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Application Number:	13693585														
CORRESPONDENCE DATA															
Fax Number:	3147267501														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	314-726-7500														
Email:	LMRefile@hdp.com														
Correspondent Name:	Leanne M. Rakers														
Address Line 1:	Harness, Dickey & Pierce, P.L.C.														
Address Line 2:	7700 Bonhomme, Suite 400														
Address Line 4:	St. Louis, MISSOURI 63105														
ATTORNEY DOCKET NUMBER:	16244-000018/US														

CH \$40.00 13693585

NAME OF SUBMITTER:	Leanne M. Rakers
Signature:	/ Leanne M. Rakers /
Date:	05/01/2013
<b>Total Attachments: 6</b> source=Executed-Assignment 2012EM379 Assignment Inventors to SGI#page1.tif source=Executed-Assignment 2012EM379 Assignment Inventors to SGI#page2.tif source=Executed-Assignment 2012EM379 Assignment Inventors to SGI#page3.tif source=Executed-Assignment 2012EM379 Assignment Inventors to SGI#page4.tif source=Executed-Assignment 2012EM379 Assignment Inventors to SGI#page5.tif source=Executed-Assignment 2012EM379 Assignment Inventors to SGI#page6.tif	

COPY

ASSIGNMENT  
JOINT

THIS ASSIGNMENT, by Jane C. SCHNEIDER, residing at 2621 32<sup>nd</sup> Street, San Diego, CA 92104; Soyam LIEBERMAN, residing at 629 Barbara Avenue, Solana Beach, CA 92075; Bo LIU, residing at 9270 Pipilo Street, San Diego, CA 92129; Eric R. MOELLERING, residing at 3216 Caminito Eastbluff, Unit 6S, La Jolla, CA 92037; John H. VERRUTO, residing at 4065 Georgia Street, San Diego, CA 92103; and Amanda SKAGGS, residing at 8148 Genesee Avenue, #141, San Diego, CA 92122; (hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in the inventions described and claimed in the application entitled "TETRASELMIS PROMOTERS AND TERMINATORS FOR USE IN EUKARYOTIC CELLS" set forth in an application for Letters Patent of the United States, bearing Serial No. 13/693,585 and filed on December 4, 2012; and

WHEREAS, SYNTHETIC GENOMICS, INC., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 11149 North Torrey Pines Road, La Jolla, CA 92037, (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said applications for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the applications for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever assignee or counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.



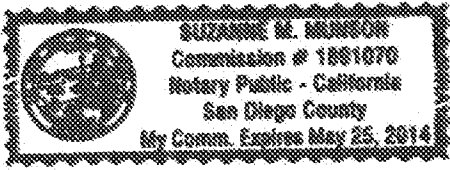
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of San Diego }

On Mar. 27, 2013 before me, Suzanne Munson, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Jane C. Schneider  
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/ 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.

Signature: Suzanne Munson  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Assignment Joint

Document Date: \_\_\_\_\_ Number of Pages: 4

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_ Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_  Corporate Officer — Title(s): \_\_\_\_\_

Individual  Individual

Partner —  Limited  General  Partner —  Limited  General

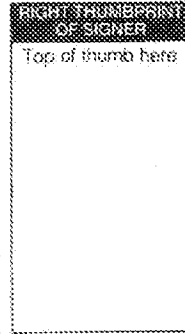
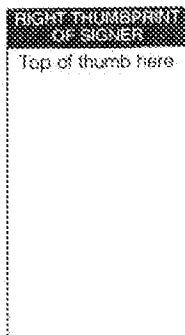
Attorney in Fact  Attorney in Fact

Trustee  Trustee

Guardian or Conservator  Guardian or Conservator

Other: \_\_\_\_\_  Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_ Signer Is Representing: \_\_\_\_\_



AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Name: Jane C. Schneider

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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

WITNESS my hand and official seal.

Signature: \_\_\_\_\_ (Seal)

Date: 3/28/13 Signature: \_\_\_\_\_  
Name: Soyan Lieberman

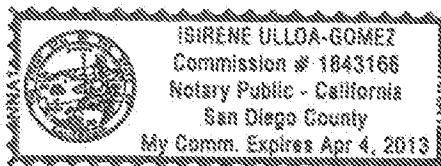
STATE OF California )  
COUNTY OF San Diego )

On March 28, 2013, before me, Isirere Ulloa Gomez, Notary Public, personally appeared Soyan Lieberman, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person 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.

Signature: \_\_\_\_\_ (Seal)



Date: 4/14/2013

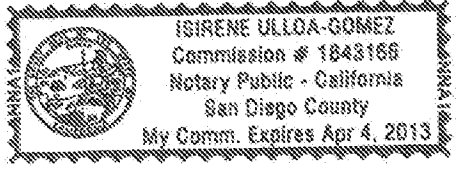
Signature: [Signature]  
Name: Bo Liu

STATE OF California )  
 )  
COUNTY OF San Diego )

On April 14, 2013, before me, Isirene Ulloa Gomez, Notary Public, personally appeared Bo Liu, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person 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.  
Signature: [Signature] (Seal)



Date: 03/22/2013

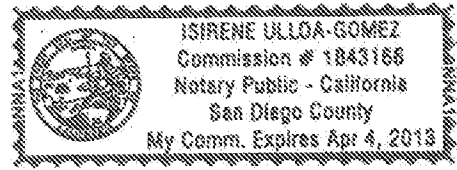
Signature: [Signature]  
Name: Eric R. Moellering

STATE OF California )  
 )  
COUNTY OF San Diego )

On March 22, 2013, before me, Isirene Ulloa Gomez, Notary Public, personally appeared Eric R. Moellering, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person 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.  
Signature: [Signature] (Seal)



Date: March 28 2013

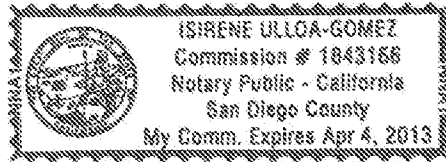
Signature: \_\_\_\_\_  
Name: John H. Verruto

STATE OF California )  
 )  
COUNTY OF San Diego )

On March 28 2013, before me, Isirene Ulloa Gomez, Notary Public, personally appeared John H. Verruto, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person 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.  
Signature: \_\_\_\_\_ (Seal)



Date: 28 March 2013

Signature: \_\_\_\_\_  
Name: Amanda Skaggs

STATE OF CA )  
 )  
COUNTY OF San Diego )

On March 28 2013, before me, Isirene Ulloa Gomez, Notary Public, personally appeared Amanda Skaggs, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person 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.  
Signature: \_\_\_\_\_ (Seal)

