

## PATENT ASSIGNMENT

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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>Jessica Kristof</td> <td>04/17/2012</td> </tr> <tr> <td>Rekha Seshadri</td> <td>04/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jessica Kristof	04/17/2012	Rekha Seshadri	04/23/2012				
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RECEIVING PARTY DATA											
<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											
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CORRESPONDENCE DATA											
<p>Fax Number: (314)726-7501          Phone: 3147267500          Email: lmrefile@hdp.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Leanne M. Rakers          Address Line 1: Harness, Dickey &amp; Pierce, P.L.C.          Address Line 2: 7700 Bonhomme, Suite 400          Address Line 4: St. Louis, MISSOURI 63105</p>											
ATTORNEY DOCKET NUMBER:	16244-000015/US										
NAME OF SUBMITTER:	Leanne M. Rakers										
<p>Total Attachments: 3          source=Assignment (Inventors to SGI)#page1.tif          source=Assignment (Inventors to SGI)#page2.tif          source=Assignment (Inventors to SGI)#page3.tif</p>											

CH \$40.00 13435315

**ASSIGNMENT  
JOINT**

THIS ASSIGNMENT, by **Jessica KRISTOF**, residing at **4416 S.E. 42<sup>nd</sup> Avenue, Portland, OR 97206**; and **Rekha SESHADRI**, residing at **8387 Whelan Dr., San Diego, CA 92119**; (hereinafter referred to as the assignor), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in the inventions described and claimed in the application entitled **METABOLIC PATHWAY TARGETING BY TRANSCRIPTION FACTOR OVEREXPRESSION** set forth in an application for Letters Patent of the United States, bearing Serial No. **13/435,315** and filed on **March 30, 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 assignor has sold, assigned, transferred and set over, and by these presents does 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 assignor hereby covenant and agrees to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor is the sole and lawful owner 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 assignor has 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 assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor 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.

Date:

4/23/12

Signature:

Name:

Rekha Seshadri

STATE OF

California

COUNTY OF

San Diego

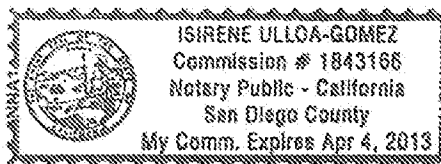
On April 23, 2012, before me, Isikene Ulloa-Gomez, Notary Public, personally appeared Rekha Seshadri, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that she executed the same in her authorized capacity, 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:

Isikene Ulloa-Gomez (Seal)



AND said assignor hereby requests 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: 17 APR 2012

Signature:  
Name:

Jessica Kristof

STATE OF Oregon )  
COUNTY OF Multnomah )

On 4/17/12, before me, Kyle Teune, Notary Public, personally appeared Jessica Kristof, 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 Oregon that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Kyle Teune (Seal)

