

## PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Kyowa Hakko Kirin Co., Ltd.	04/16/2013
RECEIVING PARTY DATA	
Name:	SANFORD APPLIED BIOSCIENCES, L.L.C.
Street Address:	2301 E. 60th Street North
City:	Sioux Falls
State/Country:	SOUTH DAKOTA
Postal Code:	57104
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	13510305
Application Number:	13510327
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NAME OF SUBMITTER:	Vanessa Fletcher
Signature:	/Vanessa Fletcher/
Date:	05/07/2013
Total Attachments: 2 source=Q121806executedAssignment#page1.tif source=Q121806executedAssignment#page2.tif	

OP \$80.00 13510305

## Assignment

Whereas, KYOWA HAKKO KIRIN CO., LTD., of 1-6-1, Ohtemachi, Chiyoda-ku, Tokyo 100-8185, JAPAN, hereinafter referred to as the "Assignor," is the owner of the entire right, title, and interest in and to:

U.S. Application No. 13/510,305 entitled "Human Artificial Chromosome Vector", by virtue of an assignment from the inventors thereof recorded on May 17, 2012, at Reel/Frame 028223/0462; and of

U.S. Application No. 13/510,327 entitled "Human Artificial Chromosome Vector", by virtue of an assignment from the inventors thereof recorded on May 17, 2012, at Reel/Frame 028224/0417; and

Whereas, SANFORD APPLIED BIOSCIENCES, L.L.C., of 2301 E. 60<sup>th</sup> Street North, Sioux Falls, South Dakota 57104, UNITED STATES, hereinafter referred to as the "Assignees," desires to acquire the entire right, title, and interest in said United States Patent Applications;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named Assignor, hereby sell, assign and transfer to the above named Assignee, their successors and assigns, our entire right, title and interest in and to said United States Application No. 13/510,305 and United States Application No. 13/510,327, and the inventions disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any continuing applications, reissue applications and reexamination applications based thereon to the above-named Assignor, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the above named Assignor in connection with United States Application No. 13/510,305 and United States Application No. 13/510,327, when called upon to do so by the above named Assignee.

Date: April 16, 2013

(signature of assignor)/ 

(name of assignor's representative)/ Nobuo Hanai

(title)/ President and CEO

**Assignment**  
**(U.S. Application Nos. 13/510,305 and 13/510,327)**

Date: \_\_\_\_\_

*(signature of assignee)*/ SANFORD APPLIED BIOSCIENCES, L.L.C.

*(name of assignee's representative)*/ Eddie Sullivan, Ph.D.

*(title)*/ Vice-President