

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>Tomonori Akai</td> <td>11/06/2012</td> </tr> <tr> <td>Kei Imai</td> <td>11/09/2012</td> </tr> <tr> <td>Yoshio Aikawa</td> <td>11/09/2012</td> </tr> <tr> <td>Masaki Ohtake</td> <td>11/09/2012</td> </tr> <tr> <td>Satoshi Sugimura</td> <td>11/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tomonori Akai	11/06/2012	Kei Imai	11/09/2012	Yoshio Aikawa	11/09/2012	Masaki Ohtake	11/09/2012	Satoshi Sugimura	11/12/2012
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<table border="1"> <tr> <td>Name:</td> <td>Dai Nippon Printing Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Ichigayakaga-cho 1-chome, Shinjuku-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>162-8001</td> </tr> </table>		Name:	Dai Nippon Printing Co., Ltd.	Street Address:	1-1, Ichigayakaga-cho 1-chome, Shinjuku-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	162-8001		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 3029846399 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 302-984-6300 Email: rsipple@mccarter.com Correspondent Name: McCarter & English, LLP Address Line 1: 405 N. King Street, 8th Floor Address Line 4: Wilmington, DELAWARE 19801</p>													
ATTORNEY DOCKET NUMBER:	119244-00042												
NAME OF SUBMITTER:	Basil S. Krikellis												
<p>Total Attachments: 2 source=119244-00042 ASSIGNMENT#page1.tif source=119244-00042 ASSIGNMENT#page2.tif</p>													

CH \$40.00 13807346

Assignment of Application

WHEREAS, I (WE) _____

Tomonori AKAI of

c/o Dai Nippon Printing Co., Ltd., 1-1, Ichigayakaga-cho 1-chome, Shinjuku-ku,

Tokyo 162-8001 Japan

Kei IMAI, Yoshio AIKAWA, Masaki OHTAKE and Satoshi SUGIMURA of all

c/o National Livestock Breeding Center, 1, Aza Odakurahara, Oaza Odakura, Nishigo-mura,

Nishishirakawa-gun, Fukushima 961-8511 Japan, respectively,

have invented certain new and useful improvements in: _____

Method for Producing Embryos by *in vitro* culture, and Method, Apparatus, and System for Selecting Embryos

for which an application for Letters Patent was executed on _____

(Application No. PCT/JP2011/065070, filed June 30, 2011), and

WHEREAS, **DAI NIPPON PRINTING CO., LTD.**

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

1-1, Ichigayakaga-cho 1-chome, Shinjuku-ku, Tokyo 162-8001 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

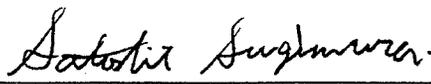
The undersigned hereby grant(s) the firm of **McCARTER & ENGLISH, LLP** of Renaissance Centre, 405 N. King Street, 8th Floor Wilmington, DE 19801 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Nov. 6, 2012 赤井 智紀
 (Signature of inventor) **Tomonori AKAI**

Date: Nov. 9, 2012 
 (Signature of inventor) **Kei IMAI**

Date: Nov. 9, 2012 相川 芳雄
 (Signature of inventor) **Yoshio AIKAWA**

Date: Nov. 9, 2012 大竹 正樹
 (Signature of inventor) **Masaki OHTAKE**

Date: Nov. 12, 2012 
 (Signature of inventor) **Satoshi SUGIMURA**