

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LUIGI WARREN	05/01/2014
JIWU WANG	05/07/2014
YUHUI NI	05/07/2014
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PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	16181261
Application Number:	14292317
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DATE SIGNED:	01/29/2019
Total Attachments: 3	
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ASSIGNMENT

WHEREAS WE, Jiwu WANG, Luigi WARREN, and Yuhui NI, hereinafter individually and jointly referred to as "Assignors" believe we are the original, joint and first inventors of the subject matter which is claimed and for which a patent is sought on each of the inventions listed below:

Title: **FEEDER-FREE DERIVATION OF HUMAN
INDUCED PLURIPOTENT STEM CELLS
WITH SYNTHETIC MESSENGER RNA**
Serial No.: 61/646,292
Filing Date: May 13, 2012

Title: **FEEDER-FREE DERIVATION OF HUMAN-
INDUCED PLURIPOTENT STEM CELLS
WITH SYNTHETIC MESSENGER RNA**
Serial No.: 13/893,166
Filing Date: May 13, 2013

Title: **FEEDER-FREE DERIVATION OF HUMAN-
INDUCED PLURIPOTENT STEM CELLS
WITH SYNTHETIC MESSENGER RNA**
Serial No.: PCT/US2013/040814
Filing Date: May 13, 2013

WHEREAS, Allele Biotechnology & Pharmaceuticals, Inc., a corporation having its principal place of business located at 9924 Mesa Rim Road, San Diego, CA 92121, hereinafter referred to as "Assignee" is desirous of acquiring the Patent Applications and the invention(s) described therein;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, we, the undersigned Assignors, individually and collectively hereby agree to sell, assign, transfer, and convey and by these presents do sell, assign, transfer, and convey unto the Assignee, its successors, and assigns, our entire right, title, and interest in and to the invention(s) described in

the Patent Applications for the territory of the United States and its possessions and territories and for the territory of all foreign countries worldwide;

in and to the Patent Applications and all related United States, international, and foreign patent applications that claim an invention disclosed in the patent application referenced above, including provisional, non-provisional, divisional, continuation, Patent Cooperation Treaty, and foreign national and regional phase patent applications, together with all rights of priority created by such patent applications under any international treaty or convention relating thereto; and

in and to all United States and foreign patents that may be granted from any of the aforementioned patent applications, including any extensions, reissues, and reexamination certificates thereof;

such invention(s), application(s), and patent(s) to be held and enjoyed by the Assignee, ~~for the~~ Assignee's own use and benefit, and for that of the Assignee's successors and assigns, until the end of the full term or terms for which such patent(s) may be granted, as fully and entirely as the same would have been held by the Assignors had this sale, assignment, transfer, and conveyance not been made.

Assignors authorize the Assignee or the Assignee's representative to insert the application numbers and filing dates of these applications into this Assignment or any ~~application~~ claiming priority thereto if they are unknown at the time this Assignment is executed.

Each of the Assignors agree that, when requested, they will, without charge to the ~~Assignee~~ but at his or her own expense, sign all papers, take all rightful oaths, make all rightful declarations, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents or other forms of protection for the invention(s) in any and all countries, and for vesting title thereto in the Assignee or its successors or assigns.

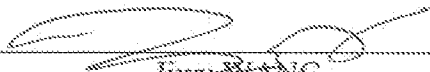
Assignors agree that a copy of this Assignment shall be deemed a full, legal, and formal equivalent of any assignment, consent to file, or like document which may be required in any country for any purpose, and more particularly, in proof of the right of the Assignee, or its successors, assigns, and legal representatives to apply for patent or other protection for the invention(s), and to claim the benefits of the right of priority provided by any relevant international treaty or convention relating to any of the aforementioned patent applications.

Each of the Assignors covenants with the Assignee, its successors, assigns, and legal representatives, that to the best of the individual Assignor's knowledge, the right, title and

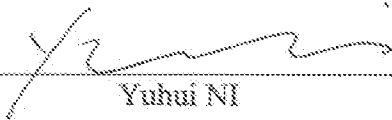
Date: 5/1/14

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LING WARREN

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JIWEI WANG

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YUHUI NI