

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YU-CHONG TAI	07/12/2017
YANG LIU	07/12/2017
COLIN A. COOK	07/12/2017
RECEIVING PARTY DATA	
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City:	PASADENA
State/Country:	CALIFORNIA
Postal Code:	91125
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15647156
PCT Number:	US2017041590
CORRESPONDENCE DATA	
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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ATTORNEY DOCKET NUMBER:	086544-1048868/1048869
NAME OF SUBMITTER:	JARED RICCI
SIGNATURE:	/Jared Ricci/
DATE SIGNED:	08/16/2017
Total Attachments: 4	
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ASSIGNMENT
(Patent Application)

We, the undersigned, have invented certain inventions and improvements disclosed in a utility (provisional or non-provisional) or design patent application entitled

“SUBSTRATES FOR HIGH-DENSITY CELL GROWTH AND METABOLITE EXCHANGE,”

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above. (U.S. Pat. Application No. 15/647,156, filed July 11, 2017, also International Pat. Application No. PCT/US2017/041590, filed July 11, 2017)

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we acknowledge, we:

- I. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to **California Institute of Technology**, having a principal place of business at 1200 E. California Boulevard, Pasadena, California 91125 (“Assignee”), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, and all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) the right to claim priority to the above-referenced patent application, and any and all applications referenced in subsection (b); and
 - (d) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

- (c) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
 3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us, as well as our heirs, legal representatives, and assigns.
 5. Promise and affirm that we have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
 6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our signatures.

Signature:  Date: 7/12/2017
Yu-Chong TAI

Signature: _____ Date: _____
Yang LIU

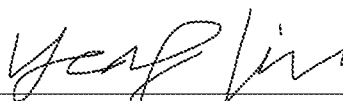
Signature: _____ Date: _____
Colin A. COOK

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Signed on the dates indicated beside our signatures.

Signature: _____ Date: _____

Yu-Chong TAI

Signature:  _____ Date: 7/12/17

Yang LIU

Signature: _____ Date: _____

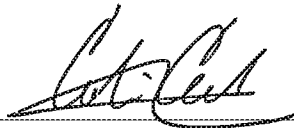
Colin A. COOK

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Signed on the dates indicated beside our signatures.

Signature: _____ Date: _____
Yu-Chong TAI

Signature: _____ Date: _____
Yang LIU

Signature:  _____ Date: 12-July-2017
Colin A. COOK