

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Eleftherios T. Papoutsakis</td> <td>10/10/2011</td> </tr> <tr> <td>Mohab Ali Al-Hinai</td> <td>10/10/2011</td> </tr> <tr> <td>Shawn William Jones</td> <td>10/10/2011</td> </tr> <tr> <td>Dinesh Chanukya Indurthi</td> <td>10/10/2011</td> </tr> <tr> <td>Daniel Knox Mitchell</td> <td>10/10/2011</td> </tr> <tr> <td>Alan Fast</td> <td>10/10/2011</td> </tr> </tbody> </table>		Name	Execution Date	Eleftherios T. Papoutsakis	10/10/2011	Mohab Ali Al-Hinai	10/10/2011	Shawn William Jones	10/10/2011	Dinesh Chanukya Indurthi	10/10/2011	Daniel Knox Mitchell	10/10/2011	Alan Fast	10/10/2011
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>University of Delaware</td> </tr> <tr> <td>Street Address:</td> <td>1 Innovation Way</td> </tr> <tr> <td>Internal Address:</td> <td>Building 1, Room 500</td> </tr> <tr> <td>City:</td> <td>Newark</td> </tr> <tr> <td>State/Country:</td> <td>DELAWARE</td> </tr> <tr> <td>Postal Code:</td> <td>19711</td> </tr> </table>		Name:	University of Delaware	Street Address:	1 Innovation Way	Internal Address:	Building 1, Room 500	City:	Newark	State/Country:	DELAWARE	Postal Code:	19711		
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CORRESPONDENCE DATA															
<p>Fax Number: (610)407-0701</p> <p>Phone: 610-407-0700</p> <p>Email: aepinto@ratnerprestia.com</p> <p><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: RatnerPrestia</p> <p>Address Line 1: 1235 Westlakes Drive</p> <p>Address Line 2: Suite 301</p> <p>Address Line 4: Berwyn, PENNSYLVANIA 19312</p>															

OP \$40.00 13229033

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PATENT
REEL: 027048 FRAME: 0019

ATTORNEY DOCKET NUMBER:	UOD-347US
NAME OF SUBMITTER:	Ling Zhong
Total Attachments: 2 source=UOD-347assign#page1.tif source=UOD-347assign#page2.tif	

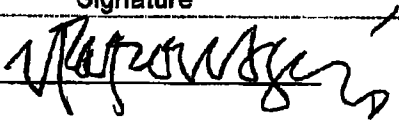
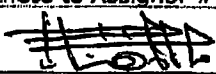
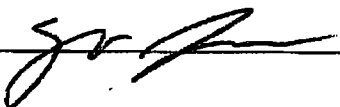
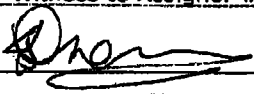


ASSIGNMENT - Patent Application		Docket Number: <u>UOD-347US</u>
Whereas, the Assignor, comprising the following named inventors:		
ASSIGNOR(s)/ INVENTOR(s)	1. Eleftherios T. Papoutsakis	2. Mohab Ali Al-Hinal
	3. Shawn William Jones	4. Dlnesh Chanukya Indurthi
	5. Daniel Knox Mitchell	6. Alan Fast
made an invention entitled: RECOMBINANT CLOSTRIDIA THAT FIX CO₂ AND CO AND USES THEREOF		
for which an application for Letters Patent of the United States: (Select one of the following): <input type="checkbox"/> is executed concurrently herewith <input checked="" type="checkbox"/> was filed in the U.S. Patent and Trademark Office on September 9, 2011, as U.S. Patent Application Serial No.: <u>13/229,033</u>		
ASSIGNEE (Full Name and Address)	University of Delaware 1 Innovation Way Building 1, Room 500 Newark, DE 19711	
is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor, Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns, the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto. Assignor hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment. Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument. If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein.		

ASSIGNMENT - Patent ApplicationDocket Number: **UOD-347US**

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

Typed or Printed Name	Signature	Date
1. Eleftherios T. Papoutsakis		10-10-11
	* Witness to Assignor #1	
2. Mohab Ali Al-Hinal		10-10-11
	* Witness to Assignor #2	
3. Shawn William Jones		10/10/11
	* Witness to Assignor #3	
4. Dinesh Chanukya Indurthi		10/10/11
	* Witness to Assignor #4	
5. Daniel Knox Mitchell		10/10/11
	* Witness to Assignor #5	
6. Alan Fast		10/10/11
	* Witness to Assignor #6	

SIGNATURE

Application for United States Letters Patent:

Serial No.: **13/229,033**Filed: **September 9, 2011**Attorney Docket Number: **UOD-347US**Total Number of Assignment Pages **2**

* Witness signature recommended, mandatory for some countries