

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Thomas Ashton Cropp</td> <td>08/07/2008</td> </tr> <tr> <td>Kelly Ann Daggett</td> <td>08/07/2008</td> </tr> </tbody> </table>		Name	Execution Date	Thomas Ashton Cropp	08/07/2008	Kelly Ann Daggett	08/07/2008
Name	Execution Date						
Thomas Ashton Cropp	08/07/2008						
Kelly Ann Daggett	08/07/2008						
RECEIVING PARTY DATA							
Name:	University of Maryland						
Street Address:	Office of Technology Commercialization						
Internal Address:	0133 Cole Student Activities Building						
City:	College Park						
State/Country:	MARYLAND						
Postal Code:	20742-1001						
PROPERTY NUMBERS Total: 1							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12112706</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12112706		
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Application Number:	12112706						
CORRESPONDENCE DATA							
Fax Number:	(202)857-6395						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	202-857-6000						
Email:	dcipdocket@arentfox.com						
Correspondent Name:	ARENT FOX LLP						
Address Line 1:	1050 Connecticut Avenue NW, Suite 400						
Address Line 2:	ATTN: Richard Berman						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20036						
ATTORNEY DOCKET NUMBER:	108172-00132 RJB						
NAME OF SUBMITTER:	Richard J. Berman, Reg. No. 39,107						

CH \$40.00 12112706

Total Attachments: 2
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PATENT
REEL: 021378 FRAME: 0906

INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS AGREEMENT by and between: Thomas Ashton Cropp, an individual having a principal residence at 8128 Old Georgetown Road, Bethesda, MD 20814 (hereinafter referred to as "Assignor"), and the University of Maryland, College Park (hereinafter referred to as "Assignee").

WITNESSETH:

WHEREAS, Assignor has created and developed certain inventions, improvements, discoveries, software, or other intellectual property, as described in Assignee Invention Disclosure No. LS-2007-026 and Attorney Docket No. 108172-00132 entitled "Codon Specific Mutagenesis" and further described in application for Letters Patent in the United States serial number 12/112,706 filed April 30, 2008 and for any and all application(s) for Letters Patent in the United States of America and throughout the world, and all divisional, continuation, continuation-in-part, substitutions, renewals, reissues, extensions and other applications pertaining to the foregoing which have or shall be filed in the United States, any foreign country and other jurisdictions (hereinafter collectively referred to as the "Works"); and

WHEREAS, Assignor agrees that, to the extent the Works are, by operation of law or otherwise, not deemed to be works made for hire within the meaning of the Copyright Act, (Title 17, U.S.C. Section 101, et seq.), Assignor agrees to assign all of his/her right, title and interest in and to the Works to Assignee, and further agrees to take such further actions and to execute such further instruments that Assignee might find reasonable or necessary to perfect or to evidence more clearly its right and claim to exclusive ownership of all of Assignor's worldwide intellectual property interests respecting the Works; and

WHEREAS, Assignor and Assignee now wish to perfect and to evidence more clearly the right and claim of Assignee to exclusive ownership of all of Assignor's intellectual property interests respecting the Works.

NOW, THEREFORE, in consideration of the rights granted to Assignor under the University of Maryland Patent Policy and Copyright Policy, as approved by the Board of Regents of the University of Maryland, and as amended by them from time to time, and other good and valuable consideration furnished by Assignee to Assignor, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee, intending to be legally bound, do hereby covenant and agree as follows:

Section 1. Assignment of the Works.

Assignor hereby assigns, transfers and conveys to Assignee, its successors, assigns or other legal representatives, without the necessity of any consideration in addition to that recited herein, all of Assignor's right, title and interest in and to the Works. This assignment shall be operative with respect to all intellectual property rights in and to the Works, including (without limitation), (i) all copyrights in the United States and elsewhere, including all rights of registration, publication, renewal, rights to create derivative works and all other rights incident to copyright ownership, for the residue now unexpired of the present term of any and all such copyrights and any term thereafter granted during which the Works are entitled to copyright; (ii) all trade secrets, inventions, know-how, ideas and confidential information embodied or reflected in the Works, including any shop rights, for the longest period of protection accorded to such interest under applicable law; and (iii) all patent rights in the United States and elsewhere, including all rights of registration, publication, renewal, and all other works incident to copyright ownership, for the longest period of protection accorded to such interests under applicable law.

Section 2. University of Maryland Copyright and Patent Policies.

The assignment of rights perfected hereunder shall be governed by the University of Maryland Patent Policy and Copyright Policy as approved by the Board of Regents of the University of Maryland, and as amended by them from time to time. Royalty income shall be allocated as set forth in those policies.

Section 3. Warranty.

Assignor warrants and covenants that he/she is an author or inventor of the Works and that as of the date of this Assignment, has taken no action respecting the Works which purports or attempts to transfer or encumber any right, title or interest in or to the Works to any other party; and covenants not to take such action in the future.

Section 4. Jurisdiction.

The validity, interpretation, and effect of this agreement shall be governed by the laws of the State of Maryland and of the United States of America. Any legal proceedings involving claims or disputes regarding this agreement shall be brought in the appropriate court in the State of Maryland.

WHEREAS, the parties have caused this Assignment to be executed on the dates below.

ASSIGNOR

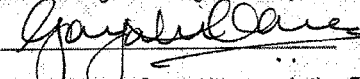
Agreed to by: 

Printed Name: Thomas Ashton Cropp, Inventor

Date: 7 Aug 2008

ASSIGNEE (University of Maryland)

Acknowledged and Agreed to by:



Printed Name: Gayatri Varma, Acting Executive Director

Date: August 11, 2008

INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS AGREEMENT by and between: **Kelly Ann Daggett**, an individual having a principal residence at **11248 Evans Trail, Apt 101, Beltsville, MD 20705** (hereinafter referred to as "Assignor"), and the University of Maryland, College Park (hereinafter referred to as "Assignee").

WITNESSETH:

WHEREAS, Assignor has created and developed certain inventions, improvements, discoveries, software, or other intellectual property, as described in Assignor Invention Disclosure No. **LS-2007-026** and Attorney Docket No. **108172-00132** entitled "**Codon Specific Mutagenesis**" and further described in application for Letters Patent in the United States serial number **12/112,706** filed **April 30, 2008** and for any and all application(s) for Letters Patent in the United States of America and throughout the world, and all divisional, continuation, continuation-in-part, substitutions, renewals, reissues, extensions and other applications pertaining to the foregoing which have or shall be filed in the United States, any foreign country and other jurisdictions (hereinafter collectively referred to as the "Works"); and

WHEREAS, Assignor agrees that, to the extent the Works are, by operation of law or otherwise, not deemed to be works made for hire within the meaning of the Copyright Act, (Title 17, U.S.C. Section 101, et seq.), Assignor agrees to assign all of his/her right, title and interest in and to the Works to Assignee, and further agrees to take such further actions and to execute such further instruments that Assignee might find reasonable or necessary to perfect or to evidence more clearly its right and claim to exclusive ownership of all of Assignor's worldwide intellectual property interests respecting the Works; and

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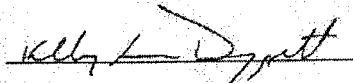
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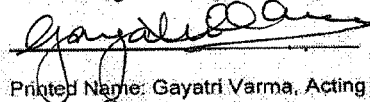
Printed Name: Kelly Ann Daggett, Inventor

Date:

8/7/08

ASSIGNEE (University of Maryland)

Acknowledged and Agreed to by:



Printed Name: Gayatri Varma, Acting Executive Director

Date:

August 11, 2008

PATENT