

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT3064434

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DENNIS YAMASHITA	02/18/2010
XIAO-TAO CHEN	02/18/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TREVENA, INC.
<b>Street Address:</b>	1018 WEST 8TH AVENUE
<b>Internal Address:</b>	SUITE A
<b>City:</b>	KING OF PRUSSIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19406
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14461081
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	138851.00341
<b>NAME OF SUBMITTER:</b>	CATHERINE HILL
<b>SIGNATURE:</b>	/Cathy1/
<b>DATE SIGNED:</b>	10/14/2014
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

We, **Dennis Yamashita and Xiao-Tao Chen**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to **Trevena, Inc.**, having an office at 1018 West 8<sup>th</sup> Avenue, Suite A, King of Prussia, PA 19406 and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

### **β-ARRESTIN EFFECTORS AND COMPOSITIONS AND METHODS OF USE THEREOF**

filed with the U.S. Patent and Trademark Office on **December 28, 2009** and assigned Application No. **12/647,810**, including any subsequently filed utility applications, which claim priority to Application No. **61/141,126**, and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to us and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 2-18-2010

*[Signature]*

Signature of: Dennis Yamashita

State of Pennsylvania

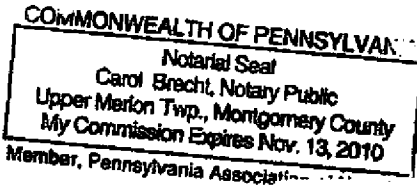
Country of Montgomery

Subscribed and sworn to before me this 18 day of February

*[Signature]*

Notary Public

My commission expires Nov 13, 2010



Date: 2-18-2010

*[Signature]*

Signature of: Xiao-Tao Chen

State of Pennsylvania

Country of Montgomery

Subscribed and sworn to before me this 18 day of February

*[Signature]*

Notary Public

My commission expires Nov 13, 2010

