

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT   |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT   |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>  |
| GEORGE KUNOS  | 11/19/2013   |
| MALLIGA IYER  | 11/20/2013   |
| RESAT CINAR   | 11/19/2013   |
| KENNER C. RICE  | 11/20/2013   |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES |
| <b>Street Address:</b>  | OFFICE OF TECHNOLOGY TRANSFER  |
| <b>Internal Address:</b>  | 6011 EXECUTIVE BOULEVARD, SUITE 325, MSC 7660  |
| <b>City:</b>  | BETHESDA   |
| <b>State/Country:</b>   | MARYLAND   |
| <b>Postal Code:</b>   | 20892-7660   |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>  |
| Application Number:   | 15674333   |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (503)595-5301  |
| <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> |  |
| <b>Phone:</b>   | 5035955300   |
| <b>Email:</b>   | morgan.rafalski@klarquist.com  |
| <b>Correspondent Name:</b>  | KLARQUIST SPARKMAN, LLP  |
| <b>Address Line 1:</b>  | 121 SW SALMON ST., SUITE 1600  |
| <b>Address Line 2:</b>  | ONE WORLD TRADE CENTER   |
| <b>Address Line 4:</b>  | PORTLAND, OREGON 97204   |
| <b>NAME OF SUBMITTER:</b>   | WAYNE RUPERT   |
| <b>SIGNATURE:</b>   | /Wayne Rupert/   |
| <b>DATE SIGNED:</b>   | 08/10/2017   |
| <b>Total Attachments: 3</b><br>source=89963 Assignment#page1.tif  |  |

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**ASSIGNMENT FOR NIH/FDA INVENTIONS  
(NIH OR FDA CO-INVENTORS ONLY)**

**WHEREAS**, we, George Kunos, Malliga Iyer, Resat Cinar, and Kennar C. Rice [hereinafter **The Inventors**], employees of the National Institutes of Health, a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660, have made certain inventions as described and claimed in:

U.S. Provisional Patent Application No. 61/725,949, filed on November 13, 2012, entitled "CANNABINOID RECEPTOR MEDIATING COMPOUNDS," and

PCT Patent Application No. PCT/US2013/069686, filed on November 12, 2013, entitled "CANNABINOID RECEPTOR MEDIATING COMPOUNDS,"

both of which applications are collectively referred to herein as "the Applications"; and

**WHEREAS**, we are the inventors named in the above-identified Applications; and

**WHEREAS**, the inventions described and claimed therein were made under conditions such as to entitle **THE UNITED STATES OF AMERICA, as represented by the Secretary, Department of Health and Human Services** [hereinafter **THE GOVERNMENT**] under Executive Order 10096 and its amendments, 35 U.S.C. §§200-201, §§206-207, and §210 and 37 C.F.R. Part 501 to the entire right, title, and interest in such inventions; and

**WHEREAS, THE GOVERNMENT** is desirous of acquiring all domestic and foreign right, title, and interest in the inventions described and claimed in the Applications;

**NOW, THEREFORE**, having the legal obligation to assign my/our right, title and interest in the inventions described and claimed in the above-identified Patent Applications to **THE GOVERNMENT**, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 and for consideration, the receipt and sufficiency of which are hereby acknowledged, we hereby assign and transfer to **THE GOVERNMENT**:

the entire right, title, and interest in and to any and all inventions described and claimed in said Applications and any and all Letters Patent which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

all rights to claim priority on the basis of said Applications including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent that may be filed for any and all inventions described and claimed in said Applications that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and

any and all such Letters Patents as may be granted in the United States or any foreign country to be held by **THE GOVERNMENT** to the end of the term for which the same would have been held by **The Inventors** had this assignment not been made.

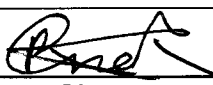
We further agree to make, execute, and deliver to **THE GOVERNMENT**, upon request, any and all papers, documents, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said invention. **THE GOVERNMENT** promises to pay any reasonable expenses incurred by **The Inventors** in making, executing and delivering of such papers to **THE GOVERNMENT**.

**IN WITNESS WHEREOF** we subscribe our hands and seals on the dates shown below:

|   |   |
|---|---|
| Inventor: George Kunos  |   |
| Date <u>11/19/2013</u>  | X <u><i>George Kunos</i></u><br>Inventor Signature        |
| County of <u>Montgomery</u>   |   |
| State of <u>Maryland</u>  |   |
| Subscribed and sworn to before me this <u>19</u> day of <u>November</u> , <u>2013</u> . |   |
| Seal  | <b>Monique Hill</b><br>NOTARY PUBLIC<br>State of Maryland |
|   | Notary Signature: <u><i>Monique Hill</i></u>              |
|   | Notary Public for the State of: <u>Maryland</u>           |
|   | My Commission Expires: <u>2/16/14</u>                     |

|   |   |
|---|---|
| Inventor: Malliga Iyer  |   |
| Date <u>11/20/13</u>  | X <u><i>Malliga Iyer</i></u><br>Inventor Signature        |
| County of <u>Montgomery</u>   |   |
| State of <u>Maryland</u>  |   |
| Subscribed and sworn to before me this <u>20</u> day of <u>November</u> , <u>2014</u> . |   |
| Seal  | <b>Monique Hill</b><br>NOTARY PUBLIC<br>State of Maryland |
|   | Notary Signature: <u><i>Monique Hill</i></u>              |
|   | Notary Public for the State of: <u>Maryland</u>           |
|   | My Commission Expires: <u>2/16/14</u>                     |

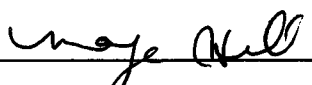
Inventor: Resat Cinar

Date 11/19/2013 x   
 Inventor Signature

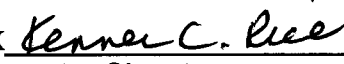
County of Montgomery  
 State of Maryland

Subscribed and sworn to before me this 19 day of November, 2013.

Seal **Monique Hill**  
 NOTARY PUBLIC  
 State of Maryland

Notary Signature:   
 Notary Public for the State of: Maryland  
 My Commission Expires: 2/16/14

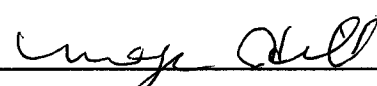
Kenner  
 Inventor: Kenner C. Rice (FCL)

Date November 20, 2013 x   
 Inventor Signature

County of Montgomery  
 State of Maryland

Subscribed and sworn to before me this 20 day of November, 2013.

Seal **Monique Hill**  
 NOTARY PUBLIC  
 State of Maryland

Notary Signature:   
 Notary Public for the State of: Maryland  
 My Commission Expires: 2/16/14