PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2823717

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| DONNA L. ROMERO | 07/14/2012 |
| MATTHEW DAVID WESSEL | 07/13/2012 |
| SHAUGHNESSY ROBINSON | 07/14/2012 |
| JEREMY ROBERT GREENWOOD | 07/17/2012 |
| KARL SHAWN WATTS | 07/16/2012 |
| LEAH LYNN FRYE | 07/13/2012 |
| GERALDINE C. HARRIMAN | 07/13/2012 |
| ALAN FRANKLIN CORIN | 07/13/2012 |
| CRAIG E. MASSE | 07/13/2012 |
| MEE SHELLEY | 08/02/2012 |

RECEIVING PARTY DATA

| Name: | NIMBUS IRIS, INC. |
|-------------------|-------------------|
| Street Address: | 25 FIRST STREET |
| Internal Address: | SUITE 404 |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02141 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14189271 |

CORRESPONDENCE DATA

Fax Number: (617)502-5002

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 617-248-5000

Email: patentdocket@choate.com

Correspondent Name: CHOATE HALL & STEWART LLP
Address Line 1: TWO INTERNATIONAL PLACE

Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER: 2009184-0054

502777122 REEL: 032727 FRAME: 0182

PATENT

| NAME OF SUBMITTER: | THOMAS H. MCLEAN |
|---------------------------------------|--------------------|
| SIGNATURE: | /Thomas H. McLean/ |
| DATE SIGNED: | 04/22/2014 |
| Total Attachments: 14 | |
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PATENT REEL: 032727 FRAME: 0183

Attorney Docket No: 2009184-0007

JOINT ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

| Inventor Name | City, State Zip |
|----------------------------|------------------------|
| 1. Donna L. Romero | Chesterfield, MO 63005 |
| 2. Matthew David Wessel | Sisters, OR 97759 |
| 3. Shaughnessy Robinson | Westerly, RI 02891 |
| 4. Jeremy Robert Greenwood | Brooklyn, NY 11238 |
| 5. Karl Shawn Watts | Portland, OR 97211 |
| 6. Leah Lynn Frye | Portland, OR 97229 |
| 7. Geraldine C. Harriman | Charlestown, RI 02813 |
| 8. Alan Franklin Corin | Sudbury, MA 01776 |
| 9. Craig E. Masse | Cambridge, MA 02139 |

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

TRAK INHIBITORS AND USES THEREOF; and

identified by United States Application Serial No. 13/347,610 filed in the United States Patent and Trademark Office on January 10, 2012; and

is also aware of the following priority applications:

Serial No.: 61/431,227; Filed: January 10, 2011 Serial No.: 61/545,873; Filed: October 11, 2011

WHEREAS NIMBUS IRIS, INC. (hereinafter "ASSIGNEE"), having a usual place of business at 25 First Street, Suite 404, Cambridge, MA 02141, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue,

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reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name:

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, I covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

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| _Onox Honer | 7/14/12 |
|--|---------|
| Name: Donna L. Romero | Date |
| Witness Signature: | |
| Tyle Domes | 7/14/12 |
| Name (please print): Tyler Romero | Date |
| Witness Signature: Chithe Romero AMMI Romero | |
| Althur Romero | 7/14/12 |
| Name (please print): | Date |

| my Dans ment | 7-13-12 |
|----------------------------|-----------|
| Name: Matthew David Wessel | Date |
| Witness Signature: | · |
| Leth Williver | 7-13-12 |
| Name (please print): | Date |
| Witness Signature: Wester | |
| Susan K. Wessel | 7/18/2017 |
| Name (please print): | Date |

| Muse Shaughnessy Robinson | July 14, 2017 |
|--|------------------|
| Witness Signature: Any Astront | <i>s</i> . |
| Any A SBASTAN | 07/14/19 Date |
| Witness Signature: Julius Julius Mans Lilia Tulko Marii | 07 - 14 - 72 |
| Nome Inlesse winth | Data |

| Ly Cand | P 3442012 |
|-----------------------------------|----------------------|
| Name: Jeremy Robert Greenwood | Date |
| Witness Signature: | |
| MALA | Jur 17, 2015 |
| Name (please print): MARK GERRARD | Date |
| Witness Signature: | |
| <u> </u> | <u>JULY 17.</u> 2012 |
| Name (please print): LYNN NUTRA | Datě |

| Name: Karl Shawn Watts | <u>2012 - 07 - 16</u> Date |
|--|-------------------------------|
| Witness Signature: | |
| Name (please print): Ni. ik Boyles | 2012-07-16 Date |
| Witness Signature: Name (please print): (AROLYN M. ME QUAW | 16 July 2012. |

| Name: Leah Lynn Frye | July 13, 2012 Date |
|--|-----------------------|
| Witness Signature: Alu Polo | |
| Allen W. Richards Name (please print): | July 13,2072 Date |
| Witness Signature: Caroling Williams | |
| Name (please print): | 13 July 2012 Date |
| | |

| Geraldine C. Harreman | 7/13/12 |
|--|-----------------------------------|
| Name: Geraldine C. Harriman | Date |
| Witness Circuit and All Control of the Control of t | |
| Witness Signature: | |
| Autonios libergolos Name (please print): | $\frac{7 - /3 - 12}{\text{Date}}$ |
| Witness Signature: Like Colynder | |
| Rota R. Liberapoulos | |
| Name (please print): | Date |

| Man F Com | 7/13/2012 |
|--|-------------------|
| Name: Alan Franklin Corin | Date |
| Witness Signature: Jama Jonehue | |
| LAURA DONEHUE Name (please print): | 7/13/2012 Date |
| Witness Signature: Deather | |
| Heather A. Lousburg Name (please print): | 7/13/12- |

PATENT REEL: 032727 FRAME: 0193

| 5-9 Mare | 7/13/12 |
|--------------------------------------|-----------------|
| Name: Craig E. Masse | Date |
| Witness Signature: Saveloles | |
| Sara Leckey | 07/13/12- |
| Name (please print): | Date ' |
| Witness Signature: Lash & Dluttemine | |
| Saran Hwhitlemore | <u> 1/13/12</u> |
| Name (please print): | Date |

Attorney Docket No: 2009184-0007

ASSIGNMENT

WHEREAS, I, Mee Shelley of Tigard, Oregon, am aware of the patent application entitled:

IRAK INHIBITORS AND USES THEREOF; and

identified by United States Application Serial No. 13/347,610 filed in the United States Patent and Trademark Office on January 10, 2012; and

am also aware of the following priority applications:

Serial No.: 61/431,227; Filed: January 10, 2011 Serial No.: 61/545,873; Filed: October 11, 2011

WHEREAS **NIMBUS IRIS, INC.** (hereinafter "ASSIGNEE"), having a usual place of business at **25 First Street, Suite 404, Cambridge, MA 02141**, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

- AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;
- AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;
- AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;
- AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;
- AND, I covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

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| Mur Ilullay | Augnst 2,2012 |
|--|------------------------|
| Name: Mee Shelley | Date |
| Witness Signature: Mark Trewer | |
| MARK BREWER Name (please print): | August 2, 2012 Date |
| Witness Signature: SHUNGI YAN Name (please print): | |
| SHUNQI YAN | 08/02/2012 |
| Name (please print): | Date |

RECORDED: 04/22/2014

REEL: 032727 FRAME: 0197