

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4652725

|                              |                |
|------------------------------|----------------|
| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT |
| <b>NATURE OF CONVEYANCE:</b> | ASSIGNMENT     |

**CONVEYING PARTY DATA**

| Name                | Execution Date |
|---------------------|----------------|
| CRAIG BATES         | 08/29/2017     |
| SUDHARSHAN EATHIRAJ | 10/18/2017     |
| HIROAKI INAGAKI     | 08/31/2017     |
| JEAN-MARC LAPIERRE  | 10/18/2017     |
| TAKAYUKI MOMOSE     | 08/31/2017     |
| KIYOSHI NAKAYAMA    | 08/31/2017     |
| TAKASHI ODAGIRI     | 09/01/2017     |
| MASAHIRO OTA        | 08/31/2017     |
| YUSUKE OTA          | 09/01/2017     |
| YOSHIHIRO SHIBATA   | 09/01/2017     |
| MANISH TANDON       | 10/19/2017     |
| TOMOYUKI TSUNEMI    | 08/31/2017     |

**RECEIVING PARTY DATA**

|                        |                 |
|------------------------|-----------------|
| <b>Name:</b>           | ARQULE, INC.    |
| <b>Street Address:</b> | ONE WALL STREET |
| <b>City:</b>           | BURLINGTON      |
| <b>State/Country:</b>  | MASSACHUSETTS   |
| <b>Postal Code:</b>    | 01803           |

**PROPERTY NUMBERS Total: 2**

| Property Type              | Number    |
|----------------------------|-----------|
| <b>Application Number:</b> | 15683913  |
| <b>PCT Number:</b>         | US1748152 |

**CORRESPONDENCE DATA**

Fax Number: (202)842-7899

*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.*

Phone: 617-937-2300

Email: jsteinfield@cooley.com

Correspondent Name: COOLEY LLP

Address Line 1: 1299 PENNSYLVANIA AVENUE NW

**PATENT**

**Address Line 2:** SUITE 700  
**Address Line 4:** WASHINGTON, D.C. 20004

|                                |                            |
|--------------------------------|----------------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | ARQL-098001US & 098001WO   |
| <b>NAME OF SUBMITTER:</b>      | CHEN CHEN (REG. NO. 73384) |
| <b>SIGNATURE:</b>              | /Chen Chen/                |
| <b>DATE SIGNED:</b>            | 10/23/2017                 |

**Total Attachments: 16**

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ASSIGNMENT

Craig BATES, Sudharshan EATHIRAJ, Hiroaki INAGAKI, Jean-Marc LAPIERRE, Takayuki MOMOSE, Kiyoshi NAKAYAMA, Takashi ODAGIRI, Masahiro OTA, Yusuke OTA, Yoshihiro SHIBATA, Manish TANDON, and Tomoyuki TSUNEMI (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent entitled AMINO-PYRROLOPYRIMIDINONE COMPOUNDS AND METHODS OF USE THEREOF, and which is a:

- (1)  provisional application
  - (a)  to be filed herewith; or
  - (b)  bearing Application No. , and filed on ;
- (2)  non-provisional application
  - (a)  to be filed herewith; or
  - (b)  bearing Application No. 15/683,913, and filed on August 23, 2017; and/or
- (3)  PCT application
  - (a)  bearing Application No. PCT/US2017/048152, and filed on August 23, 2017 and/or
- (4)  attached hereto.

WHEREAS, ArQule, Inc., having its principal place of business at One Wall Street, Burlington, MA 01803, its successors, legal representatives and assigns (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified above; the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of these application(s); and any and all patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee or a predecessor in interest of the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee or a predecessor in interest of the Assignee then in confirmation of any obligation to do so in said prior

agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application(s) for patent identified above;
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified above or any application(s) for patent claiming the Invention(s), including any priority application(s), substitute application(s), division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover any and all past, present, and future damages, including royalties, for any and all past, present, and future infringements of any application for patent identified in the preceding paragraphs (b)-(e) and of any and all patent(s) granted based thereon in the United States and in all other countries; and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application(s) identified above when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

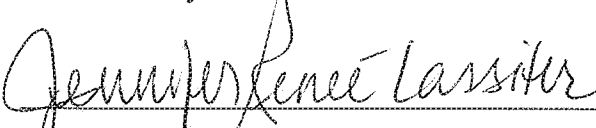
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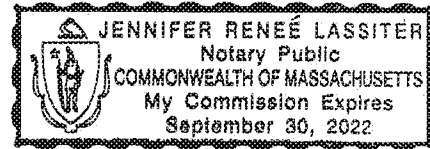
By:   
Craig Bates

State of Massachusetts )  
County of Middlesex ) ss.

On August 29 2017 before me, Jennifer Renee Lassiter, Notary Public, personally appeared Craig Bates, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

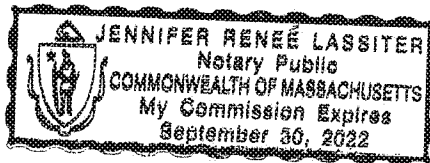
WITNESS my hand and official seal.


  
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: 9/30/2022




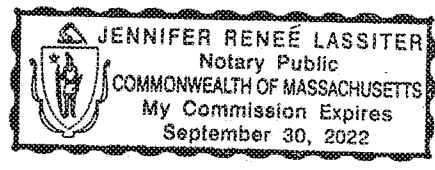
Date: October 18<sup>th</sup>, 2017 By:   
Sudharshan Eathiraj

State of Massachusetts )  
County of Middlesex ) ss.

On October 18, 2017, before me, Jennifer Renee Lassiter, Notary Public, personally appeared Sudharshan Eathiraj, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public



Place Notary Seal Above


My Commission Expires: 9/30/2022

Date: Aug. 31st, 2017

By: Hiroaki Inagaki  
Hiroaki Inagaki

IN WITNESS WHEREOF, I, Wayne Spevak, hereby declare  
(Printed Name of Witness)


that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: 8/31/17

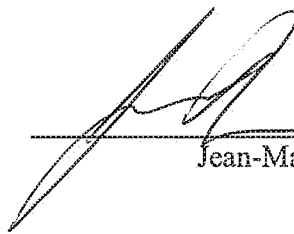
IN WITNESS WHEREOF, I, Chao Zhang, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: 8/31/17



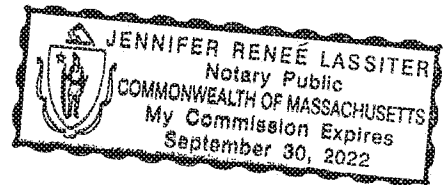
Date: October 18, 2017 By:   
Jean-Marc Lapierre

State of Massachusetts )  
County of Middlesex ) ss.

On October 18, 2017 before me, Jennifer Renee Lassiter Notary Public, personally appeared Jean-Marc Lapierre, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Jennifer Renee Lassiter  
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: 9/30/2022

Date: August 31, 2017

By: Takayuki Momose  
Takayuki Momose

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Tanaka  
(Signature of Witness)

Date: August 31, 2017

IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Kimura  
(Signature of Witness)

Date: August 31, 2017

Date: August 31, 2017

By: Kiyoshi Nakayama  
Kiyoshi Nakayama

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Tanaka  
(Signature of Witness)

Date: August 31, 2017

IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Kimura  
(Signature of Witness)

Date: August 31, 2017

Date: September 1, 2017

By: Takashi Odagiri  
Takashi Odagiri

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
**(Printed Name of Witness)**

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Tanaka  
**(Signature of Witness)**

Date: September 1, 2017

IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
**(Printed Name of Witness)**

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Kimura  
**(Signature of Witness)**

Date: September 1, 2017

Date: August 31, 2017

By: *Masahiro Ota*  
Masahiro Ota

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

*T. Tanaka*  
(Signature of Witness)

Date: August 31, 2017

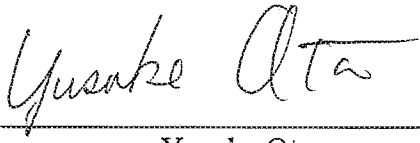
IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

*T. Kimura*  
(Signature of Witness)

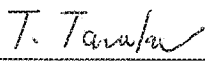
Date: August 31, 2017

Date: September 1, 2017

By:   
Yusuke Ota

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
(Printed Name of Witness)

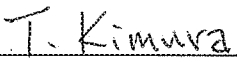
that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: September 1, 2017

IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: September 1, 2017

Date: September 1, 2017

By: *Yoshihiro Shibata*  
Yoshihiro Shibata

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

*T. Tanaka*  
(Signature of Witness)

Date: September 1, 2017

IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

*T. Kimura*  
(Signature of Witness)

Date: September 1, 2017

Date: October 19, 2017

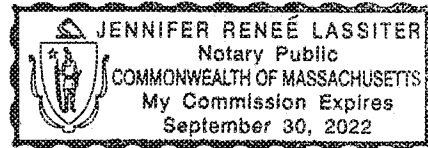
By: Manish Tandon  
Manish Tandon

State of Massachusetts )  
County of Middlesex ) ss.

On Oct. 19, 2017, before me, Jennifer Renee Lassiter, Notary Public, personally appeared Manish Tandon, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Jennifer Renee Lassiter  
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: 9/30/2022



Date: August 31, 2017

By: Tomoyuki Tsunemi  
Tomoyuki Tsunemi

IN WITNESS WHEREOF, I, Tsuyoshi Tanaka, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Tanaka  
(Signature of Witness)

Date: August 31, 2017

IN WITNESS WHEREOF, I, Takahiro Kimura, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

T. Kimura  
(Signature of Witness)

Date: August 31, 2017

For and on behalf of ASSIGNEE:

Date: October 19, 2017

*[Handwritten Signature]*

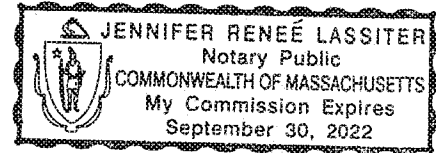
By: \_\_\_\_\_  
Name: Peter S. Lawrence  
Title: President & COO  
Company: ArQule, Inc.

State of Massachusetts )  
County of Middlesex ) ss.

On October 19, 2017 before me, Jennifer Renee Lassiter, Notary Public, personally appeared Peter S. Lawrence, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Jennifer Renee Lassiter  
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: 9/30/22