504606013 10/23/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	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

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

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15683913
PCT Number:	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

504606013 REEL: 043922 FRAME: 0765

PATENT

Address Line 2:	SUITE 700		
Address Line 4:	WASHINGTON, D.C. 20004		
ATTORNEY DOCKET NUMBER	: ARQL-098001US & 098001WO		
NAME OF SUBMITTER:	CHEN CHEN (REG. NO. 73384)		
SIGNATURE:	/Chen Chen/		
DATE SIGNED:	10/23/2017		
Total Attachments: 16			
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PATENT REEL: 043922 FRAME: 0766

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;
(0)	
(2)	x non-provisional application (a) to be filed herewith; or
	(b) x bearing Application No. 15/683,913, and filed on August 23, 2017; and/or
(3)	x PCT application (a) x 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

149748672 v1

PATENT REEL: 043922 FRAME: 0767 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.

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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.

149748672 v1

Date:	By:			************
		<u> </u>	Aig Bates	
State of MASSAMUSUS. County of MUSUSUSUSUS On AUGUST 2920 February Department and in his/her/their authorized capacity(ie	Cra fory evidence, to and acknowledged	ig Bates be the person I to me that h	, w (s) whose name(s e/she/they execut	who s) is/are sed the same
the person(s), or the entity upon beha	•	•	•	
WITNESS my hand and official seal.	, Y.,		JENNIFER RENE Notary F COMMONWEALTH OF My Commissi September	MASSACHUSETTS on Expires
Signature of Notary Public My Commission Expires: 9/30	12022	Pla	ce Notary Seal Al	bove
wy Commission Expires. 1700				

JENNIFER RENEÉ LASSITER Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 30, 2022

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Date: October 18th 2017 By: V	Sudharshan Eathiraj
Public, personally appeared Sudharshan Eat proved to me on the basis of satisfactory evidence, to be the p subscribed to the within instrument and acknowledged to me	person(s) whose name(s) is/are that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/th the person(s), or the entity upon behalf of which the person(s)	· · · · · · · · · · · · · · · · · · ·
WITNESS my hand and official seal.	JENNIFER RENEÉ LASSITER Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 30, 2022
HAMIN Renee Lassifer Signature of Notary Public	Place Notary Seal Above
My Commission Expires: $9/30/20$	

Date: Aug. 3/ST, 2017	By:	Hirod	Sar (1) Tiroaki Inage	Isageshi'
IN WITNESS WHEREOF, I,	Wayne	Speurk		, hereby declare
that I was personally present and did		ited Name of W		evecute the
assignment.	see the above	married person de	ary sign and v	oxecute the
(Signature of Witness)		•		
Date: 8/31/17	***************************************			
IN WITNESS WHEREOF, I,	Char	zhano ted Name of Wi	3	, hereby declare
that I was personally present and did	•		,	execute the
assignment.	Dec are above.	namoa poison ac	ny sign and c	Accute the
Cha 2				
(Signature of Witness)				
Date: 8/31/17				

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Date: October 18, 2017 By:	Jean-Marc Lapierre
State of MASSACHUSCHS) ss. County of MICHAELSCH) ss. On October 18, 2017 before me, Jennifer Public, personally appeared Jean-Marco proved to me on the basis of satisfactory evidence, to be subscribed to the within instrument and colorected and solvential an	the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to in his/her/their authorized capacity(ies), and that by his/h the person(s), or the entity upon behalf of which the pers	ner/their signature(s) on the instrument
WITNESS my hand and official seal. Jewel Lewsiter Signature of Notary Public	JENNIFER RENEÉ LAS SITER Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires September 30, 2022 Place Notary Seal Above
My Commission Expires: 4/30 3027	

Date:	August 31, 2017	By: Taby	Takayuki Momose
			Takayuki Momose
IN WITN	VESS WHEREOF, I,	Tsuyoshi Tanaka	, hereby declare
	,	(Printed Name of	f Witness)
that I was assignme		d see the above named perso	n duly sign and execute the
- CONTRACTOR - CON	T. Tanler re of Witness)		
(Signatu	re of Witness)		
Date:	August 31, 2017		•
IN WITN	IESS WHEREOF, I,	Takahiro Kimura	, hereby declare
		(Printed Name of	(Witness)
that I was assignme		d see the above named person	n duly sign and execute the
	Kimura		
(Signatur	re of Witness)		
Nate:	August 31, 2017		

Date:	Augus	t 31, 2017	Ву:	<u>Ki</u>	Yorh' Kiyo:	<u>Nak<i>afa</i></u> shi Nakayar	na
	personant.	ally present and	did see the above	ited Name	of Witn	iess)	
	/.	Tamba		••			
(Signatui	re of Wi	tness)					
Date:	Augus	t 31, 2017	***************************************				
IN WITN	ESS WI	HEREOF, I,	Takahiro	Kimura		· .	nereby declare
			(Prin	ited Name	of Witn	ess)	
that I was assignmen		lly present and	did see the above	named per	son duly	sign and ex	ecute the
T.	Kim	uva					
(Signatur				•			
Date:	August	31, 2017					

Date:	September 1, 2017	_ By: Takash	Odagiri
		Tal	kashi Odagiri
		•	
IN WITN	IESS WHEREOF, I,	Tsuyoshi Tanaka	, hereby declare
		(Printed Name of Witi	
that I was		see the above named person duly	y sign and execute the
	T. Tanaka		
(Signatu	re of Witness)		
Date:	September 1, 2017		
IN WITN	ESS WHEREOF, I,		hereby declare
.1 . 2	44 . 4 4 4	(Printed Name of With	2 .
that I was assignme		see the above named person duly	sign and execute the
,	Kimura		
(Signatu	re of Witness)		
Date:	September 1, 2017		

Date:August 31, 2017	By:	Masahi	***************************************
		Mas	sahiro Ota
·			
IN WITNESS WHEREOF, I,	Tsuyoshi Tar	aka	hereby declare
	•	ed Name of Witne	*
that I was personally present and did assignment.	see the above no	amed person duly s	sign and execute the
T. Taraka			
(Signature of Witness)			
Date:August 31, 2017	**************************************		
	v		
IN WITNESS WHEREOF, I,	Takahiro Kim	ura	, hereby declare
	(Printe	d Name of Witne	ss)
that I was personally present and did	see the above na	med person duly s	ign and execute the
assignment.			
T. Kimnya			
(Signature of Witness)			
Date: August 31, 2017			

Date: September 1, 2017	By: Jusuk	e Uta
		Yusuke Ota
IN WITNESS WHEREOF, I,	Tsuyoshi Tanaka	, hereby declare
	(Printed Name of Wit	
that I was personally present and cassignment.	lid see the above named person dul	y sign and execute the
T. Tank		
(Signature of Witness)	-	
Date: September 1, 2017		
IN WITNESS WHEREOF, I,	Takahiro Kimura	hereby declare
	(Printed Name of Wit	ness)
that I was personally present and dassignment.	lid see the above named person duly	y sign and execute the
T. Kimura		
(Signature of Witness)		
Date: September 1, 2017		

Date: September 1, 2017	$B_{\mathbf{V}^*}$	Yoshihir	Shikata
	ــ برا	Yos	hihiro Shibata
IN WITNESS WHEREOF, I,	Tsuyoshi	Tanaka	, hereby declare
- CAN ASPANISH PART WERE ASPA		ed Name of Witi	
that I was personally present and did see	the above n	amed person duly	y sign and execute the
assignment.			
T. Tamba	***************************************		
(Signature of Witness)			
Date: September 1, 2017			
IN WITNESS WHEREOF, I,			, hereby declare
	•	ed Name of With	•
that I was personally present and did see assignment.	the above na	ımed person duly	y sign and execute the
T. Kimura			
(Signature of Witness)			
Date: Santember 1 2017			

Date: October 19, 2017 By: V	rank Landon
	Manish Tandon
State of Massachusetts)	
County of <u>Middlisex</u>) ss.	
On Cct. 19,2017, before me, Jenvier Public, personally appeared Maniproved to me on the basis of satisfactory evidence, to	sh Tandon , who
subscribed to the within instrument and acknowledge	d to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by h	is/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the p	
WITNESS my hand and official seal.	JENNIFER RENEÉ LASSITER Notary Public COMMONWEALTH OF MASSACHUSETIS My Commission Expires September 30, 2022
Signature of Notary Public	Place Notary Seal Above
My Commission Expires: $9/30/2022$	

Date:	August 31, 2017	₽ _{1/2} .	Tampula Tsunemi
.e.e.e.		ω,	Tomoyuki Tsunemi
	A € : *		
IN WIT	TNESS WHEREOF, I,		, hereby declare
		(Printed I	Name of Witness)
that I w assignm	~ ~ ~	did see the above name	ed person duly sign and execute the
	T. Tavala		
(Signat	ure of Witness)		
Date:	August 31, 2017		
IN WIT	NESS WHEREOF, I,	Takahiro Kimura	, hereby declare
		(Printed I	Name of Witness)
that I w	as personally present and o	•	ed person duly sign and execute the
assignm	nent.		
	T. Kimuva		
(Signat	ure of Witness)		
Date:	August 31, 2017		

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For and on behalf of ASSIGNEE: By: Name: PETER S. Lawre Title: President & COD S. Lawrence Company: ArQule, Inc. State of Massachusetts County of Middlesex on October 19, 2017 before me. Jennifer Re Public, personally appeared 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. JENNIFER RENEÉ LASSITER Notary Public WITNESS my hand and official seal. OMMONWEALTH OF MASSACHUSETTS My Commission Expires September 30, 2022 Signature of Notary Public Place Notary Seal Above My Commission Expires:

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RECORDED: 10/23/2017

PATENT REEL: 043922 FRAME: 0782