

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5277316

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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>           |
| ZHEN LI   | 07/19/2018                      |
| RUI ZHU   | 08/23/2018                      |
| SO WONG   | 08/28/2018                      |
| <b>RECEIVING PARTY DATA</b>   |                                 |
| <b>Name:</b>  | ARROWHEAD PHARMACEUTICALS, INC. |
| <b>Street Address:</b>  | 225 SOUTH LAKE AVENUE           |
| <b>Internal Address:</b>  | SUITE 1050                      |
| <b>City:</b>  | PASADENA                        |
| <b>State/Country:</b>   | CALIFORNIA                      |
| <b>Postal Code:</b>   | 91101                           |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                 |
| <b>Property Type</b>  | <b>Number</b>                   |
| <b>Application Number:</b>  | 16130377                        |
| <b>CORRESPONDENCE DATA</b>  |                                 |
| <b>Fax Number:</b>  |                                 |
| <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>   | 608-316-3984                    |
| <b>Email:</b>   | patents@arrowheadpharma.com     |
| <b>Correspondent Name:</b>  | ROBERT M. TEIGEN                |
| <b>Address Line 1:</b>  | 502 S. ROSA ROAD                |
| <b>Address Line 4:</b>  | MADISON, WISCONSIN 53719        |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 30658-US1                       |
| <b>NAME OF SUBMITTER:</b>   | ROBERT M. TEIGEN                |
| <b>SIGNATURE:</b>   | /Robert M. Teigen/              |
| <b>DATE SIGNED:</b>   | 12/11/2018                      |
| <b>Total Attachments: 3</b>   |                                 |
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| source=Assignment_signed#page2.tif  |                                 |
| source=Assignment_signed#page3.tif  |                                 |

# ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Zhen Li, of Monona, Wisconsin; Rui Zhu, of Middleton, Wisconsin; and So Wong, of Oregon, Wisconsin; hereby assign to: ARROWHEAD PHARMACEUTICALS, INC., a corporation of Delaware, having a place of business at 225 South Lake Avenue, Suite 1050, Pasadena, California, 91101; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of and described and/or claimed in a provisional application for United States Patent, entitled "**RNAi Agents And Compositions for Inhibiting Expression of Angiopoietin-Like 3 (ANGPTL3), And Methods of Use,**" filed on July 7, 2018, and assigned U.S. Serial Number **62/694,976**; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

we hereby covenant that we have the full right to convey the entire right, title, and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

IN WITNESS WHEREOF, I hereto set my hand and seal at Madison, Wisconsin, this

19 day of July, 2018.

Zhen Li

State of Wisconsin  
County of Dane

Before me this 19 day of July, 2018, personally appeared Zhen Li known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that she executed the same as her free act and deed for the purposes therein contained.

Caroline A. Christian  
Caroline A. Christian, Notary Public  
My Commission Expires: 11/03/2018

IN WITNESS WHEREOF, I hereto set my hand and seal at Madison, Wisconsin, this

23 day of August, 2018.


Rui Zhu

State of Wisconsin  
County of Dane

Before me this 23 day of August, 2018, personally appeared Rui Zhu known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

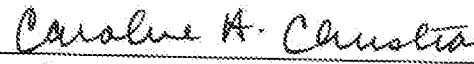
Caroline A. Christian  
Caroline A. Christian, Notary Public  
My Commission Expires: 11/03/2018

IN WITNESS WHEREOF, I hereto set my hand and seal at Madison, Wisconsin, this  
28<sup>th</sup> day of August, 2018.

  
\_\_\_\_\_  
So Wong

State of Wisconsin  
County of Dane

Before me this 28 day of August, 2018, personally appeared So Wong known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that she executed the same as her free act and deed for the purposes therein contained.

  
\_\_\_\_\_  
Caroline A. Christian, Notary Public  
My Commission Expires: 11/03/2018

