

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TOM WICKHAM | 03/09/2018 |
| TIFFANY F. CHEN | 03/09/2018 |
| XUQING ZHANG | 03/09/2018 |
| CAROLYN HUDAK | 03/09/2018 |
| SIVAN ELLOUL | 03/09/2018 |
| BILLY LAW | 03/09/2018 |
| LENKA HOFFMAN | 03/09/2018 |
| KRISTIAN ERIC TEICHERT | 03/09/2018 |
| SHAMAEEL RABIA DASTAGIR | 03/12/2018 |
| RECEIVING PARTY DATA | |
| Name: | RUBIUS THERAPEUTICS, INC. |
| Street Address: | 325 VASSAR ST SUITE 1A |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02139 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15932341 |
| CORRESPONDENCE DATA | |
| Fax Number: | (617)395-7070 |
| <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> | |
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| Email: | PYPatents@LALaw.com |
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| Address Line 1: | RIVERFRONT OFFICE PARK |
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| Address Line 4: | CAMBRIDGE, MASSACHUSETTS 02142 |
| ATTORNEY DOCKET NUMBER: | R2081-702110 |
| NAME OF SUBMITTER: | PETER YANG |

PATENT

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|---|--------------|
| SIGNATURE: | /Peter Yang/ |
| DATE SIGNED: | 04/11/2018 |
| Total Attachments: 11 source=Executed Assignment Invs to Rubius#page1.tif source=Executed Assignment Invs to Rubius#page2.tif source=Executed Assignment Invs to Rubius#page3.tif source=Executed Assignment Invs to Rubius#page4.tif source=Executed Assignment Invs to Rubius#page5.tif source=Executed Assignment Invs to Rubius#page6.tif source=Executed Assignment Invs to Rubius#page7.tif source=Executed Assignment Invs to Rubius#page8.tif source=Executed Assignment Invs to Rubius#page9.tif source=Executed Assignment Invs to Rubius#page10.tif source=Executed Assignment Invs to Rubius#page11.tif | |

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, We, the undersigned **Tom Wickham; Tiffany F. Chen; Xuqing Zhang; Carolyn Hudak; Sivan Elloul; Billy Law; Lenka Hoffman; Kristian Eric Teichert; and Shamael Rabia Dastagir** of 20 Hickory Lane, Groton, Massachusetts 01450; 91 Sidney St. Apt 207, Cambridge, Massachusetts 02139; 75 Brackett Street, Unit F, Quincy, Massachusetts 02169; and 74 Dane Street #1, Somerville, Massachusetts 02143; 114 Eastbourne Rd., Newton, Massachusetts 02459; 1211 Beacon Street Apt. 7, Brookline, Massachusetts 02446; 12 Quarry Lane, Malden, Massachusetts 02148; 57 Baremeadow Street, Methuen, Massachusetts 01844; and 15 Paul Street, Apt. 1, Cambridge, MA 02139, respectively, hereby:

Sell, assign and transfer to **RUBIUS THERAPEUTICS, INC.**, a Delaware corporation having a place of business at 325 Vassar St Suite 1A, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as said Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in an application for Letters Patent filed in the United States Patent and Trademark Office on:

February 16, 2018

ENTER FILING DATE ABOVE

under Application Serial No. 15/932,341 and *KBK 4/11/2018*

Entitled **FUNCTIONALIZED ERYTHROID CELLS,**

and in and to said application and all continuing, divisional, continuation-in-part, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said any and all inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said any and all inventions including the right to apply for patent rights in each foreign country and all rights to priority; and further including any right to sue for past infringement;

Appoint, authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting in the spaces provided above the filing date and serial number of said application when known;

Agree that said Assignee may apply for and receive Letters Patent for said any and all inventions in its own name; and when requested, without charge to but at the expense of said Assignee, We agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on said any

and all inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to relating to said any and all inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said any and all inventions and for vesting title to said any and all inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

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.

Said Assignee does hereby acknowledge and accept the above sale, assignment and transfer of all the rights, title and interest enumerated above, including but not limited to the right to priority and the right to sue for past infringement.

By: RUBIUS THERAPEUTICS, INC.

March 14, 2018

Date

Mark Boshar

Signature

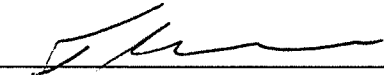
MARK BOSHAR

Printed Name of Signor

VICE PRESIDENT, LEGAL AFFAIRS

Title/Authority of Signor

3/9/18
Date


Tom Wickham

Witness:

3/9/2018
Date



3/9/2018
Date

Tiffany F. Chen
Tiffany F. Chen

Witness:

3/9/2018
Date

Rhettie J.

3/9/18
Date

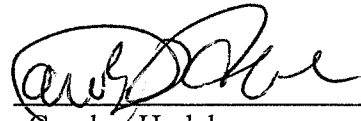
Xuqing Zhang
Xuqing Zhang

Witness:

3/9/2018
Date

[Signature]

03/09/2018
Date

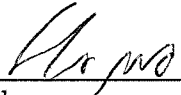

Carolyn Hudak

Witness:

3/9/2018
Date



3/9/18
Date


Sivan Elloul

Witness:

3/9/2018
Date



3/9/2018
Date

Billy Law
Billy Law

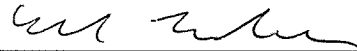
Witness:

3/9/2018
Date

[Signature]

3/9/18

Date



Lenka Hoffman

Witness:

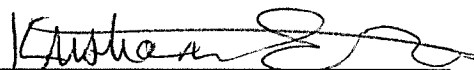
3/9/2018

Date



9 March 2018

Date



Kristian Eric Teichert

Witness:

3/9/2018

Date



3/12/18
Date

Shamael R. Dastagir
Shamael Rabia Dastagir

Witness:

3/12/2018
Date

[Signature]