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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT SHALWITZ	07/11/2018
CHARLOTTE HARTMAN	09/05/2018
AKSHAY BUCH	07/27/2018
ISAIAH SHALWITZ	07/11/2018
JOHN JANUSZ	09/09/2018
JOSEPH GARDNER	07/27/2018

RECEIVING PARTY DATA

Name:	AKEBIA THERAPEUTICS, INC.
Street Address:	245 FIRST STREET, SUITE 1400
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14897849

CORRESPONDENCE DATA

Fax Number: (617)526-9899

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) 526-9706

shynes@proskauer.com Email: PROSKAUER ROSE LLP **Correspondent Name:** Address Line 1: ONE INTERNATIONAL PLACE

Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	AKE-004US1
NAME OF SUBMITTER:	FANGLI CHEN, PH.D.
SIGNATURE:	/Fangli Chen, Reg. No. 51,551/
DATE SIGNED:	01/16/2019

Total Attachments: 8

PATENT REEL: 048034 FRAME: 0340

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PATENT REEL: 048034 FRAME: 0341

Attorney Docket No.: AKE-004US1

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
1. Robert Shalwitz	Bexley, OH
2. Charlotte Hartman	Carmel, IN
3. Akshay Buch	West Chester, OH
4. Isaiah Shalwitz	Columbus, OH
5. John Jamisz	West Chester, OH
6. Joseph Gardner	Cincinnati, OH

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:

Compositions and Methods for Treating Anemia

x ident	ified by United States Applic	ation Serial No.	14/897,849	
in the Uni	ted States Patent and Tradem	ark Office on	December 11, 2015	ś
x iden	tified by International Patent	Application No.	PCT/US14/40889	
on	June 4, 2014	; and		
x an	d is also aware of the followi	ng related provisi	onal application:	
x an	d is also aware of the followi	ng related provisi	onal application:	
x an				
X and	Serial No.	Dec	Filed	
x and	Serial No. 61/912,185	Dex Nov	Filed ember 5, 2013	
X an	Serial No. 61/912,185 61/898,885	Dec Nov Nov	Filed ember 5, 2013 ember 1, 2013	

WHEREAS Akebia Therapeutics, Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the state of Delaware, and having a usual place of business at 245 First Street, Suite 1400, Cambridge, MA 02142, 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, each of us has sold, assigned, and

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Attorney Docket No.: AKE-004US1

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, including any right of priority thereto; 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. Our 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 any 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 each of us had this sale, assignment and transfer not been made;

AND, each of us hereby acknowledges that this Assignment, being of our 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, each of us hereby further agrees for ourselves and our 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 we 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, each of us further hereby authorizes 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, each of us hereby appoints ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

Attorney Docket No.: AKE-004US1

AND, each of us hereby requests the Commissioner for Patents of the United States Patent and Trademark Office 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, each of us covenants 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 us, and that full right to convey the same as herein expressed is possessed by us.

WITNESSES

Witness Signature:

Witness Name: Ger

Witness Date:

Witness Signature:

Inventor Name: Robert Shalwitz

Witness Name:

Inventor:

Mike Courinte

Witness Date:

July 11, 2018

Attorney Docket No.: AKE-004US1

Inventor:

Inventor Name: Charlotte Hartman

WITNESSES

Witness Signature:

Witness Name:

Witness Date:

Witness Signature:

Witness Name:

LAOIRE M

Witness Date:

9-5-18

Attorney Docket No.: AKE-004US1

Inventor: Akshay Buch -

WITNESSES

Witness Signature: Jedyk //s-al

Witness Name: <u>I Joseph Gar</u>dner

Witness Date: <u>07/27/2</u>

Witness Signature: Kaitlyn Sul

Witness Name:

Witness Date:

aithyn syllivan

7/27/2018

Patent Assignment Attorney Docket No.: AKE-004US1

Inventor:

Inventor Name: Isaiah Shalwitz

WITNESSES

Witness Signature:

Witness Name: GO2

Witness Date:

Witness Signature:

Witness Name:

Witness Date:

Cortinh. \mathbf{H}_{\perp} 2018

Attorney Docket No.: AKE-004US1

Inventor:

Inventor Name: John Janusz

WITNESSES

Witness Date:

Witness Signature:

Witness Name:

Witness Signature:

Witness Name:

Witness Date:

Attorney Docket No.: AKE-004US1

Inventor:

Inventor Nanye: Joseph Gardner

WITNESSES

Witness Signature: <u>Kaillyn Bull</u>

Witness Name: Witness Date:

Witness Date:

Witness Signature: <u>AKShing B. Bull</u> Witness Name: <u>AKSHAY BUCH</u>

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PATENT REEL: 048034 FRAME: 0349