506240188 09/08/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
RAVINDRA KUMAR	08/17/2018
JOHN KNOPF	09/07/2018

RECEIVING PARTY DATA

Name:	ACCELERON PHARMA INC.	
Street Address:	128 SIDNEY STREET	
City:	CAMBRIDGE	
State/Country:	MASSACHUSETTS	
Postal Code:	02139	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	17002288
Application Number:	16829642

CORRESPONDENCE DATA

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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.

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Email: ginny.blundell@whitecase.com

Correspondent Name: WHITE & CASE LLP Address Line 1: 75 STATE STREET

Address Line 4: BOSTON, MASSACHUSETTS 02109

ATTORNEY DOCKET NUMBER:	1848179-114-103_104	
NAME OF SUBMITTER:	IE OF SUBMITTER: GINNY BLUNDELL	
SIGNATURE:	/Ginny Blundell/	
DATE SIGNED:	09/08/2020	

Total Attachments: 4

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> PATENT REEL: 053709 FRAME: 0562

506240188

ASSIGNMENT

WHEREAS, we, Ravindra Kumar and John Knopf have invented one or more inventions described in an application for Letters Patent of the United States, entitled COMPOSITIONS AND METHODS FOR TREATING PULMONARY HYPERTENSION the specification of which:

[x] was filed on April 4, 2018 as Application No.; 15/945,565

WHEREAS, Acceleron Pharma Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, having principal offices at 128 Sidney Street, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention(s) as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any substitution, reissue, continuation, divisional, revival and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; said invention(s), application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; whereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree 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 aforesaid invention(s) to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

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As the inventors, we each swear as follows:

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature:

Date: 08/17/248

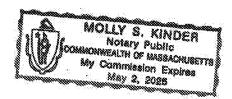
Inventor's Address: 421 Arlington Street Acton, MA 01720

State of Massachuretin County of Middlesex

On this 17 day of ANNES , 2018, before me, the undersigned notary public, personally appeared Ravindra Kumar, proved to me through satisfactory evidence of identification, which was Personal knowledge, to be the person whose name is signed on the preceding or attached document in my presence.

Nothery Public Notice

My commission expires May 02, 2025



Inventor's Signature: John Kno				
Date:				
Inventor's Address: 147 Robbins Drive Carlisle, MA 01741				
State of Massachusetts) County of Middlesex)				
On this day ofSeptember, 20_18, before me, the undersigned notary public, personally appeared John Knopf, proved to me through satisfactory evidence of identification, which was to be the person whose name is signed on the preceding or attached document in my presence.				
(SEAL)				
Notary Public				
My commission expires Way 02, 2025				

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Sciency Public
Sciency Public
Win Sciency Expires
My Commission Expires
May 2, 1325

ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing execute	ed Assignment on behalf of Acceleron Pharma Inc.		
By: John Quisel	Date: 7/25//3		
Title: EVP, Chief Business Officer			
State of Massachusetts)			
County of Middlesex)			
On this 25 day of September	20 18, before me, the undersigned notary public.		
personally appeared John Quise!	2018, before me, the undersigned notary public, proved to me through satisfactory evidence of		
identification, which was <u>responsible</u> so be the person whose name is			
signed on the preceding or attached docume	ni in my presence.		
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(SRAI)	While Candrall Mide 1)		
www.	Notary Public /		
My commission expires May 02,	2025		

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MOLLY S. KINDER
Notary Public
COMMONWEALTH OF MASSACHUSETTS

My Commission Expires
May 2, 2025

RECORDED: 09/08/2020