

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7122264

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RAVINDRA KUMAR	04/21/2021
ASYA GRINBERG	11/02/2021
ERIK M. VOGAN	01/14/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ACCELERON PHARMA INC.
<b>Street Address:</b>	128 SIDNEY STREET
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16340048
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)979-9301
<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>	6179799300
<b>Email:</b>	ginny.blundell@whitecase.com
<b>Correspondent Name:</b>	WHITE & CASE LLP
<b>Address Line 1:</b>	75 STATE STREET
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02109
<b>ATTORNEY DOCKET NUMBER:</b>	1848179-0002-119-301
<b>NAME OF SUBMITTER:</b>	GINNY BLUNDELL
<b>SIGNATURE:</b>	/Ginny Blundell/
<b>DATE SIGNED:</b>	01/14/2022
<b>Total Attachments: 7</b>	
source=Assignment#page1.tif	
source=Assignment#page2.tif	
source=Assignment#page3.tif	
source=Assignment#page4.tif	

source=Assignment#page5.tif

source=Assignment#page6.tif

source=Assignment#page7.tif

**ASSIGNMENT**

WHEREAS, we, **Ravindra Kumar, Asya Grinberg, and Erik M. Vogan**, have invented one or more inventions described in an application for Letters Patent of the United States, entitled **VARIANT ACTRIIB PROTEINS AND USES THEREOF**, the specification of which:

**[ x ]** was filed on **April 5, 2019** as Application No. **16/340,048**

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, MA 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; we hereby 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, continuation or revival 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;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

As the inventor/s, 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.

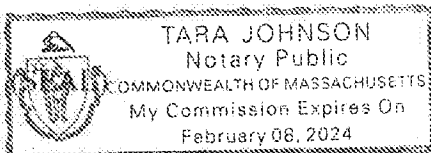
IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

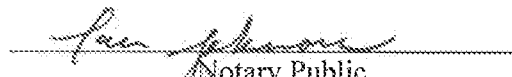
Inventor's Signature:

  
Ravindra Kumar

State of Massachusetts )  
County of Norfolk )

On this 21 day of April, 2021, before me, the undersigned notary public, personally appeared Ravindra Kumar, proved to me through satisfactory evidence of identification, which was Driver's License, to be the person whose name is signed on the preceding or attached document in my presence.



  
Notary Public

My commission expires 02-08-24

**ASSIGNMENT**

WHEREAS, we, **Ravindra Kumar, Asya Grinberg, and Erik M. Vogan**, have invented one or more inventions described in an application for Letters Patent of the United States, entitled **VARIANT ACTRIIB PROTEINS AND USES THEREOF**, the specification of which:

[ x ] was filed on **April 5, 2019** as Application No. **16/340,048**

WHEREAS, **Accelaron 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, MA 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; we hereby 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, continuation or revival 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;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor: Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: **Ravindra Kumar**

Witness: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Inventor: Signature: *Asya Grinberg* \_\_\_\_\_ Date: Nov 2, 2021  
Name: **Asya Grinberg**

Witness: *Nicole Taylor MacAvlay* \_\_\_\_\_ Date: Nov 2, 2021  
Print Name: Nicole Taylor MacAvlay

Inventor: Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: **Erik M. Vogan**

Witness: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

# ASSIGNMENT

WHEREAS, we, **Ravindra Kumar, Asya Grinberg, and Erik M. Vogan**, have invented one or more inventions described in an application for Letters Patent of the United States, entitled **VARIANT ACTRIIB PROTEINS AND USES THEREOF**, the specification of which:

[ x ] was filed on **April 5, 2019** as Application No. **16/340,048**

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, MA 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; we hereby 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, continuation or revival 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;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor: Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: **Ravindra Kumar**


Witness: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Inventor: Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: **Asya Grinberg**

Witness: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Inventor: Signature:  Date: 01/14/22  
Name: **Erik M. Vogan**

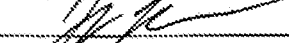
Witness:  Date: 1/14/22

Print Name: Christine Vogan



ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of Acceleron Pharma Inc.

By: 

Date: 1/14/22

Name: Jason S. Cathelyn, Ph.D.

Title: Vice President, Intellectual Property