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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 |
| JOHN KNOFF | 06/06/2016 |
| RAVINDRA KUMAR | 04/06/2016 |
| ASYA GRINBERG | 04/06/2016 |
| DIANNE SAKO | 04/06/2016 |
| ROBERT SCOTT PEARSALL | 04/06/2016 |
| ROSELYNE CASTONGUAY | 04/06/2016 |
| GANG LI | 04/06/2016 |
| YOSSI DAGON | 04/06/2016 |
| RECEIVING PARTY DATA | |
| Name: | ACCELERON PHARMA INC. |
| Street Address: | 128 SIDNEY STREET |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02139 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16251935 |
| CORRESPONDENCE DATA | |
| Fax Number: | (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> | |
| Phone: | 6179799300 |
| 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: | 1848179-0002-109-102 |
| NAME OF SUBMITTER: | GINNY BLUNDELL |
| SIGNATURE: | /Ginny Blundell/ |

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| DATE SIGNED: | 09/03/2019 |
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Total Attachments: 13

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- source=Assignment#page13.tif

ASSIGNMENT

We,

- 1) John Knopf;
- 2) Ravindra Kumar;
- 3) Asya Grinberg;
- 4) Dianne Sako;
- 5) Robert Scott Pearsall;
- 6) Roselyne Castonguay;
- 7) Gang Li; and
- 8) Yossi Dagon;

residing, respectively, at

- 1) 147 Robbins Drive
Carlisle, Massachusetts 01741
United States of America;
- 2) 421 Arlington Street
Acton, MA 01720
United States of America;
- 3) 37 Follen Road
Lexington, MA 02421
United States of America;
- 4) 14 Mystic Road
Medford, MA 02155
United States of America;
- 5) 8 Winterberry Lane
North Reading, MA 01864
United States of America;
- 6) 19 JAMES STREET
WATERLOO, MA 02472
UNITED STATES OF AMERICA

7) 39 DAWSON DR.
SUDBURY, MA 01776

; and

8) 29 Berkeley Rd.
Framingham, MA
01701

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to and do hereby assign, sell and transfer to Acceleron Plasma Inc., a corporation organized and existing under the laws of the State of Delaware and having an office and a place of business at 128 Sidney Street, Cambridge, Massachusetts 02139, its successors and assigns (1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all our inventions and discoveries disclosed in the following applications:

- (i) A United States non-provisional utility application filed/to be filed on April 6, 2016, and assigned serial number 16/092,577, and entitled "ALKYNE-TRIS HETEROCYCLIC AMIDES AND USES THEREOF", that claims priority to U.S. Provisional Application No. 62/143,579 (filed April 6, 2015); and
- (ii) An International Patent Application that claims priority to U.S. Provisional Application No. 62/143,579 (filed April 6, 2015), filed/to be filed under the Patent Cooperation Treaty in the United States Receiving Office (RO/US) on April 6, 2016 and assigned serial number PCT/US2016/026233, entitled "ALKYNE-TRIS HETEROCYCLIC AMIDES AND USES THEREOF", designating all PCT member states, including

Albania (AL), Algeria (DZ), Angola (AO), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Bahrain (BH), Barbados

⁵ We hereby authorize Rogan & Gray LLP to insert in this instrument the deposit date of the respective application when the date is known and the serial number of said application when Rogan & Gray LLP is officially notified thereof.

(BB), Belarus (BY), Belgium (BE), Belize (BZ), Benin (BJ), Bosnia and Herzegovina (BA), Botswana (BW), Brazil (BR), Bulgaria (BG), Burkina Faso (BF), Brunei Darussalam (BN), Cameroon (CM), Canada (CA), Central African Republic (CF), Chad (TD), Chile (CL), China (CN), Colombia (CO), Comoros (KM), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Dominica (DM), Dominican Republic (DO), Ecuador (EC), Egypt (EG), El Salvador (SV), Equatorial Guinea (GQ), Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guatemala (GT), Guinea (GN), Guinea Bissau (GW), Honduras (HN), Hungary (HU), Iceland (IS), India (IN), Islamic Republic of Iran (IR), Indonesia (ID), Ireland (IE), Israel (IL), Italy (IT), Japan (JP), Kazakhstan (KZ), Kenya (KE), Kyrgyzstan (KG), Lao People's Democratic Republic (LA), Latvia (LV), Lesotho (LS), Liberia (LR), Libya (LY), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Madagascar (MG), Malawi (MW), Malaysia (MY), Mali (ML), Malta (MT), Mauritania (MR), Mexico (MX), Monaco (MC), Mongolia (MN), Montenegro (ME), Morocco (MA), Mozambique (MZ), Namibia (NA), Netherlands (NL), New Zealand (NZ), Nicaragua (NI), Niger (NE), Nigeria (NG), Norway (NO), Oman (OM), Panama (PA), Papua New Guinea (PG), Peru (PE), Philippines (PH), Poland (PL), Portugal (PT), Qatar (QA), Republic of Korea (KR), Republic of Moldova (MD), Romania (RO), Russian Federation (RU), Rwanda (RW), Saudi Arabia (SA), Saint Kitts and Nevis (KN), Saint Lucia (LC), Saint Vincent and the Grenadines (VC), San Marino (SM), Sao Tome and Principe (ST), Senegal (SN), Serbia (RS), Seychelles (SC), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Syrian Arab Republic (SY), Tajikistan (TJ), Thailand (TH), the former Yugoslav Republic of Macedonia (MK), Togo (TG), Trinidad and Tobago (TT), Tunisia (TN), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab Emirates (AE), United Kingdom (GB), United Republic of Tanzania (TZ), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Zambia (ZM) and Zimbabwe (ZW).

including any applications and patents claiming priority therefrom, and any renewals, revivals, reissues, reexaminations, extensions, supplementary protection certificates, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of Acceleron Pharma Inc., its designee, or in our name at Acceleron Pharma Inc. or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent that claims priority therefrom in the United States or in any other country of the world and any renewals, revivals, reissues, reexaminations, supplementary protection certificates, and extensions of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

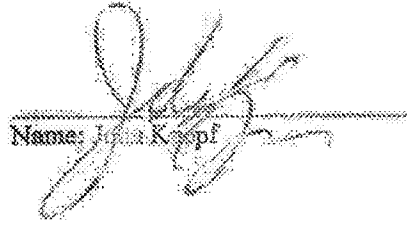
We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to Acceleron Pharma Inc. as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of Acceleron Pharma Inc. to execute and to deliver to Acceleron Pharma Inc. any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations, extensions, supplementary extension certificates thereof, and any substitute applications therefor.

We further agree at any time to execute and to deliver upon request of Acceleron Pharma Inc. such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of Acceleron Pharma Inc. under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

ASSIGNOR:

Name: John Knopf

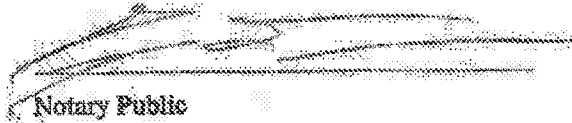


State of Massachusetts)

County of Middlesex)

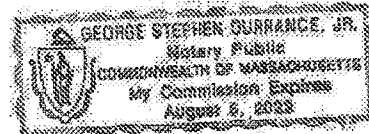
On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared John Knopf, proved to me through satisfactory evidence of identification which was Personal Knowledge to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)



Notary Public

My commission expires August 5, 2022



ASSIGNOR:



Name: Ravindra Kumar

State of Massachusetts)

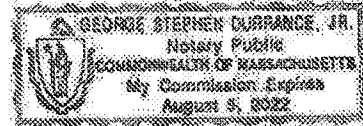
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Ravindra Kumar, proved to me through satisfactory evidence of identification which was Person/Kumar, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)


Notary Public

My commission expires August 5, 2022



ASSIGNOR:


Name: Asya Grinberg

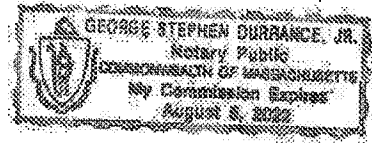
State of Massachusetts)
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Asya Grinberg, proved to me through satisfactory evidence of identification which was Personal Identification, to be the person whose name is signed on the preceding or attached document in my presence.

(SEAL)


Notary Public

My commission expires August 5, 2022



ASSIGNOR:

Dianne Sako
Name: Dianne Sako

State of Massachusetts)

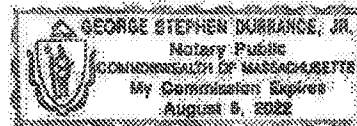
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Dianne Sako, 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.

(SEAL)

[Signature]
Notary Public

My commission expires August 5, 2022



ASSIGNOR:

[Handwritten Signature]
Name: Robert Scott Fearwell

State of Massachusetts)

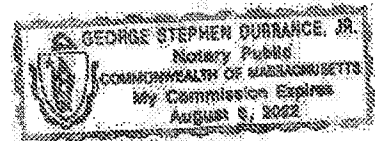
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Robert Scott Fearwell, 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.

(SEAL)

[Handwritten Signature]
Notary Public

My commission expires August 5, 2022



ASSIGNOR:

Roselyne Castonguay
Name: Roselyne Castonguay

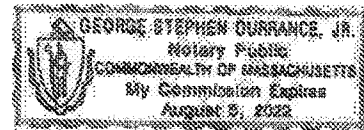
State of Massachusetts)
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Roselyne Castonguay, 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.


(SEAL)

George Stephen Durrance, Jr.
Notary Public

My commission expires August 5, 2022



ASSIGNOR:


Name: Gang Li

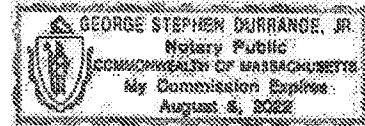
State of Massachusetts)
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Gang Li, 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.

(SEAL)


Notary Public

My commission expires August 5, 2022




ASSIGNOR:


Name: Yass Dvoron

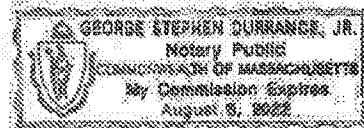
State of Massachusetts)
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally appeared Yass Dvoron, 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.

(SEAL)


Notary Public

My commission expires August 5, 2022



ACKNOWLEDGEMENT OF ASSIGNEE:

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

By: [Signature]
Name: John Quise!
Title: General Counsel

State of Massachusetts)
County of Middlesex)

On this 6th day of April, 2016, before me, the undersigned notary public, personally
appeared John Quise!, proved to me through satisfactory evidence of
identification which was Personal Knowledge, to be the person whose name is signed
on the proceeding or attached document in my presence.

(SEAL)

[Signature]
Notary Public

My commission expires August 5, 2022

