PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5333774

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| HASSAN JAVANBAKHT | 08/26/2016 |
| HENRIK MUELLER | 08/26/2016 |

RECEIVING PARTY DATA

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| City: | BASEL | |
| State/Country: | SWITZERLAND | |
| Postal Code: | 4070 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16310789 |

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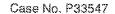
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| ATTORNEY DOCKET NUMBER: | 103135.0241 | |
|-------------------------|----------------------------------|--|
| NAME OF SUBMITTER: | LOREN R. HULSE | |
| SIGNATURE: | /Loren R. Hulse, Reg No. 46,784/ | |
| DATE SIGNED: | 01/18/2019 | |

Total Attachments: 3

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PATENT 505286999 REEL: 048062 FRAME: 0494



TO BE NOTARIZED



ASSIGNMENT AGREEMENT

I/We, the undersigned

inventor(s)

Employed by:

Hassan JAVANBAKHT, a Canadian citizen c/o F. Hoffmann-La Roche AG Grenzacherstrasse 124, 4070 Basel, Switzerland F. Hoffmann-La Roche AG

Henrik MUELLER, a German citizen c/o F. Hoffmann-La Roche AG Grenzacherstrasse 124, 4070 Basel, Switzerland F. Hoffmann-La Roche AG

hereinafter ASSIGNOR(S), herewith declare that I am/we are joint inventor(s) together with

Inventor(s)

Employed by:

Xingchun HAN Yongguang WANG Song YANG Roche R&D Center (China) Ltd Roche R&D Center (China) Ltd Roche R&D Center (China) Ltd

hereinafter CO-INVENTOR(S)

of the invention entitled:

PAPD5 and PAPD7 inhibitors for treating a hepatitis B infection

for which (a) priority application(s) was (were) filed with the

Patent Office

European Patent Office

as outlined below:

Case No. P33547 Country

Filing Date 17 June 2016

Serial No. 16175045.0

ASSIGNOR(S) acknowledge(s) the previous transfer to

F. Hoffmann-La Roche AG Grenzacherstrasse 124 4070 Basel Switzerland

hereinafter ASSIGNEE, of all right, title, and interest in, to, and deriving from the inventions disclosed in the priority application(s) set forth above by operation of law, contract, or otherwise.

As far as right, title, and interest of the ASSIGNOR(S) in, to, and deriving from the inventions disclosed in the patent application(s) set forth above may not have been transferred to ASSIGNEE, ASSIGNOR(S) herewith assign(s) to ASSIGNEE all right, title, and interest in, to, and deriving from the invention and to the above priority application(s), including the right to claim priority.

The assignment of the rights of the CO-INVENTOR(S) is subject to a separate assignment agreement. ASSIGNOR(S) explicitly approve(s) that assignment.

ASSIGNEE by virtue of this assignment thereof shall have the exclusive right and is fully entitled to claim priority of the priority application(s) set forth above, to apply for, obtain, and own patents worldwide in its own name and at its own costs that claim priority to and are based in whole or in part

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on the priority application(s), to maintain any patent granted thereupon and to discontinue any patents or patent applications as it deems appropriate.

ASSIGNEE and ASSIGNOR hereby acknowledge, confirm, and agree that ASSIGNOR has been fully and adequately compensated for all rights granted or assigned to ASSIGNEE hereunder.

This agreement shall be governed and construed in accordance with substantive laws of Switzerland, with the exclusion of the Vienna Convention on the International Sale of Goods dated April 11, 1980. The competent courts of Basel City, Switzerland shall have exclusive jurisdiction.

ASSIGNOR(S)

Basel, Switzerland, August 26, 2016

Place, Date

Basel, Switzerland, August 26, 2016

Place, Date

Hassan JAVANBAKHT

Henrik MUELLER

ASSIGNEE

F. Hoffmann-La Roche AG

Basel, Switzerland, September 6, 2016

Place, Date

Antonio Natoli Wolder of procuration

Susanne Amann Mandatory





Legalization

The undersigned Notary Public of the Canton of Basel-Stadt (Switzerland), Dr. Christoph Nertz, herewith legalizes the overleaf signatures of

Mister Hassan Javanbakht, born on September 21th, 1971, Canadian citizen, residing in Basel (Switzerland), and

Mister Henrik Müller, born on March 13th, 1981, German citizen, residing in Rostock (Germany).

He certifies that the named persons are in the employ of F. Hoffmann-La Roche AG, a stock company with legal domicile in Basel (Switzerland).

He also legalizes the overleaf signature of

F. Hoffmann-La Roche AG, a stock company with legal domicile in Basel (Switzerland), rendered by

Mister Antonio Natoli, citizen of and residing in Basel (Switzerland), and

Miss Susanne Amann, German citizen, residing in Heitersheim (Germany),

both duly entitled to sign documents wherein property of the company is alienated.

Signers and signatures personally known.

B a s e I (Switzerland), this 13th (thirteenth) day of September 2016 (two thousand and sixteen).

OH CHRISTOPH NERTZ
NOTAR BASEL

OHOTAR BASEL

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BR 1176/2016

PATENT REEL: 048062 FRAME: 0497

RECORDED: 01/18/2019