PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREW KRUEGEL	03/24/2017
DALIBOR SAMES	03/24/2017
MADALEE G. WULF	03/24/2017
JONATHAN A. JAVITCH	03/24/2017

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	535 W. 116TH STREET
Internal Address:	412 LOW MEMORIAL LIBRARY
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10027

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17189456

CORRESPONDENCE DATA

Fax Number:

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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ATTORNEY DOCKET NUMBER:	87943-AA-PCT-US/GJG/LMO		
NAME OF SUBMITTER:	DARREN HABER		
SIGNATURE:	RE: 87943-AA-PCT-US/DH/for Gary J. Gershik		
DATE SIGNED:	03/04/2021		

Total Attachments: 5

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ASSIGNMENT OF PCT INTERNATIONAL APPLICATION

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned,

Andrew Kruegel of 766 Humboldt Street, Apt. 2, Secaucus, NJ 07094, United States of America;

Dalibor Sames of 560 Riverside Drive, Apt. 16H, New York, NY 10027, United States of America;

Madalee G. Wulf of 32 Harbor Street, #2, Salem, MA 01970, United States of America;

Jonathan A. Javitch of 9 Fairlawn Ave, Dobbs Ferry, NY 10522, United States of America;

effective March 24, 2017,

Hereby sell, assign and transfer to The Trustees of Columbia University in the City of New York a corporation of the State of New York, having a place of business at 412 Low Memorial Library, 535 W. 116th Street, New York, New York 10027, USA, its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the PCT International Application, which has been filed on March 24, 2017 and is entitled

MITRAGYNINE ALKALOIDS AS OPIOID RECEPTOR MODULATORS

(PCT International Application No. PCT/US2017/023977, filed March 24, 2017, claiming priority of U.S. Provisional Application No. 62/313,360, filed March 25, 2016)

and in and to said PCT International Application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said PCT International Application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Agree that said Assignee may apply for and receive U.S. and foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said U.S. and foreign Letters Patent or other rights, the priority of the aforesaid PCT International Application under the provisions of the International Convention of 1883 and later modifications thereof, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said

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inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Witness: Lower SAMES Iprinted in SCO RIVERSIDE DV Saddress) New JORK, NY 10027	/
Witness: Ch /m/ Isignature Andrew Kruegel [printed no 766 Hamboldt It Apt 2 Jaddress] Secancy NT 07094	
Witness:	

[L.S.]
Witness: Jonathan A. Javitch

Witness: Jonathan A. Javitch

Gairlan Fe jaddress:

Dabbs Ferry, NY (0527

The Trustees of Columbia University in the City of New York hereby accepts the assignment of rights set forth above

NAME: TIPLE:

Page 4 of 4

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Witness;	falous at sound	Jonethan A. Javitch	
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	[printed name]		
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NAME: TITLE:

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PATENT REEL: 055491 FRAME: 0174

RECORDED: 03/04/2021