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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 |
| KAI ZHANG | 11/08/2018 |
| RECEIVING PARTY DATA | |
| Name: | KNOPP BIOSCIENCES LLC |
| Street Address: | 2100 WHARTON STREET |
| Internal Address: | SUITE 615 |
| City: | PITTSBURGH |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 15203 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16124853 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 131717.02721 |
| NAME OF SUBMITTER: | CHARLES J. VRSCAK, JR. |
| SIGNATURE: | /Charles J. Vrscak, Jr./ |
| DATE SIGNED: | 08/29/2019 |
| Total Attachments: 5 | |
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| source=Executed_Assignment_Zhang#page4.tif | |

ASSIGNMENT

WHEREAS, I, KAI ZHANG (hereinafter "Assignor"), am an inventor of a certain new and useful invention(s) as set forth and disclosed in the patent application(s) listed in **Schedule A** attached hereto (hereinafter the "Invention");

WHEREAS, KNOPP BIOSCIENCES LLC, having an address of 2100 Wharton Street, Suite 615, Pittsburgh, PA 15203 (hereinafter "Assignee"), wishes to acquire Assignor's entire right, title and interest in and to said Invention and in and to any and all Letters Patent that may be obtained therefor in the United States and any and all foreign countries;

WHEREAS, Assignor previously conveyed to Assignee all of Assignor's right, title, and interest in the Invention as described in such prior-filed application(s) pursuant to an assignment dated September 25, 2014 which has been recorded at the U.S. Patent and Trademark Office at Reel 033962 and Frame 0272 and at Reel 043491 and Frame 0760 (hereinafter, "Assignment Agreement");

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, at least as of September 7, 2018, the parties agree as follows.

Assignor, does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, Assignor's entire right, title and interest in and to said Invention as set forth in the scheduled application(s), including any applications which claim priority to the scheduled application(s), any application(s) to which the scheduled application(s) claim priority, and any continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, and in and to any and all patents of the United States and foreign countries which may be issued for said Invention.

Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns all rights to claim priority from the Invention and scheduled application(s); all causes of action and remedies related to the Invention and scheduled application(s) (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and any and all other rights and interests arising out of, in connection with, or in relation to the Invention and scheduled application(s).

Assignor shall not execute any writing or do any act whatsoever conflicting with the terms and conditions of this Assignment. Assignor will, at any time upon request, without further or additional consideration, but at the expense of Assignee, execute such additional assignments and other writings and do such additional acts as Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making the application for or obtaining original patents or applications, continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, for said Invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any

and all proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of Assignor and Assignee.

The undersigned hereby grant(s) the firm of PEPPER HAMILTON LLP the power to insert on this Assignment any further identification, including the country, application number, filing date and/or title, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other patent office for recordation of this document.

The undersigned requests that any patents that may be issued for said Invention be issued to Assignee, its legal representatives, successors or assigns, as an owner of Assignor's entire right, title and interest in and to said patent and the Invention covered thereby.

Date: 11/8/2018

Assignor: 
KAI ZHANG

ACKNOWLEDGMENT

STATE OF PA)
)
COUNTY OF Allegheny)

SS:

On this 8th day of November, 2018, before me, the undersigned Notary Public, personally appeared KAI ZHANG, to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

SEAL

Notary Public 

My commission expires 10-15-22

Commonwealth of Pennsylvania - Notary Seal
Megan Andrews, Notary Public
Allegheny County
My commission expires October 15, 2022
Commission number 1339709
Member, Pennsylvania Association of Notaries

SCHEDULE A

| Country | Patent Application No. | Filing Date | Title |
|---------|------------------------|--------------------|-------------------------------------------------------------|
| US | 61/793,892 | March 15, 2013 | IMIDAZO[4,5-B]PYRIDIN-2-YL AMIDES AS KV7 CHANNEL ACTIVATORS |
| WO | PCT/US2014/030686 | March 17, 2014 | IMIDAZO[4,5-B]PYRIDIN-2-YL AMIDES AS KV7 CHANNEL ACTIVATORS |
| US | 14/776,271 | September 14, 2015 | IMIDAZO[4,5-B]PYRIDIN-2-YL AMIDES AS KV7 CHANNEL ACTIVATORS |
| US | 16/124,853 | September 7, 2018 | IMIDAZO[4,5-B]PYRIDIN-2-YL AMIDES AS KV7 CHANNEL ACTIVATORS |
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