PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5014390

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

CONVEYING PARTY DATA

| Name | Execution Date | |
|---------------|----------------|--|
| SHENGMIN SANG | 04/13/2018 | |
| YINGDONG ZHU | 04/13/2018 | |

RECEIVING PARTY DATA

| Name: | NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY |
|-------------------|--|
| Street Address: | DIVISION OF RESEARCH & ECONOMIC DEVELOPMENT |
| Internal Address: | 1601 EAST MARKET STREET |
| City: | GREENSBORO |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27411 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15934660 |

CORRESPONDENCE DATA

Fax Number: (919)419-0383

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.

Phone: 9194938000 Email: 9194938000 cchia@jwth.com

Correspondent Name: ARLES A. TAYLOR, JR.

Address Line 1: 3015 CARRINGTON MILL BLVD

Address Line 2: SUITE 550

Address Line 4: MORRISVILLE, NORTH CAROLINA 27560

| ATTORNEY DOCKET NUMBER: | 1884/13/2 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | CONSTANCE CHIA |
| SIGNATURE: | /constance chia/ |
| DATE SIGNED: | 06/19/2018 |

Total Attachments: 3

source=Executed_Assignment_to_NCA&T_1884-13-2#page1.tif source=Executed_Assignment_to_NCA&T_1884-13-2#page2.tif

PATENT 504967644 REEL: 046134 FRAME: 0254

source=Executed_Assignment_to_NCA&T_1884-13-2#page3.tif

PATENT REEL: 046134 FRAME: 0255

Atty. Docket No.: 1884/13/2

<u>ASSIGNMENT</u>

WHEREAS, we, Shengmin Sang of Concord, North Carolina and Yingdong Zhu of Concord, North Carolina (hereinafter "Assignors"), have invented certain new and useful improvements in 6-SHOGAOL DERIVATIVES AND ACTIVITIES THEREOF (hereinafter "Invention") for which application for a U.S. Patent was made on March 23, 2018 as Application Serial No. 15/934,660, and claims priority to United States Patent Application No. 62/475,440 filed March 23, 2017 (hereinafter "Applications").

AND, WHEREAS, North Carolina Agricultural and Technical State University, a non-profit organization located in Greensboro, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the Assignee, its successors and assigns, their entire right, title and interest in and to the Invention and Applications, and in and to any and all U.S. and foreign patent applications filed on the Invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Patents of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon (hereinafter, "Patents"), for the full end of the term for which said Patents may be granted, together with their right to claim the priority of the Applications in all countries in accordance with the Paris Convention, the Patent Cooperation Treaty, or other agreement or national law under which priority can be claimed, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made. It is expressly agreed by Assignors and Assignee that this Assignment fully conveys and transfers from Assignors to Assignee the right to sue for any and all patent infringement occurring prior to the date of this Assignment.

> PATENT REEL: 046134 FRAME: 0256

Assignors hereby request that said Patents be issued in accordance with this Assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess the unencumbered right and authority to make this Assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to them relating to the Invention, to testify and/or assist as requested by the Assignee in any interference or legal proceedings involving the Applications, Patents, or Invention, including cooperating in any enforcement proceedings involving the Applications, Patents, or Invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the Invention in all countries and to vest in the Assignee complete title to the Invention and Patents, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

| Executed this | day of | APY71 | | _20 | maganian (*) |
|---------------|-----------------|---------------|--|----------------|--------------|
| | | Market Market | and the state of t | | |
| | | Shengmin Sang | | | |
| Witnessed by: | | | | | |
| May & Rudgies | | <u>3/18</u> | | | |
| Name ∅ ` | Date | | \$ 100 mage | | |
| Name A | 04/(3/2 Date | <u>-2/8</u> | | | |
| Name | vate | | | | |
| | * * * * * | **** | | | |
| Executed this | day of | Apri | | _20 <u>/</u> 8 | |

Atty. Docket No.: 1884/13/2

Yingdong Zhu

Witnessed by:

May & Rudoic 4/13/11