

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| DARIA ANNA RUTKOWSKA | 01/22/2019 |
| HESTER CATHARINA STARK | 01/22/2019 |
| MARTHA MAGARETHA O'KENNEDY | 01/22/2019 |
| RECEIVING PARTY DATA | |
| Name: | CSIR |
| Street Address: | SCIENTIA, MEIRING NAUDE ROAD |
| Internal Address: | BRUMMERIA |
| City: | PRETORIA |
| State/Country: | SOUTH AFRICA |
| Postal Code: | 0184 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16095264 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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: | 408-667-6761 |
| Email: | kristen.lemme@fisherbroyles.com |
| Correspondent Name: | VICTORIA L. BOYD |
| Address Line 1: | 530 LYTTON AVE., SECOND FLOOR |
| Address Line 2: | FISHERBROYLES LLP |
| Address Line 4: | PALO ALTO, CALIFORNIA 94301 |
| ATTORNEY DOCKET NUMBER: | 11170.001US1 1 OF 3 |
| NAME OF SUBMITTER: | KRISTEN LEMME |
| SIGNATURE: | /Kristen Lemme/ |
| DATE SIGNED: | 04/05/2019 |
| Total Attachments: 3 | |
| source=Assignment (CSIR) - As filed#page1.tif | |
| source=Assignment (CSIR) - As filed#page2.tif | |

ASSIGNMENT AGREEMENT

We, the undersigned

InventorsEmployed by:

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1. Daria Anna Rutkowska, a citizen of South Africa, c/o CSIR Scientia, Meiring Naudé Road Brummeria, 0184, Pretoria South Africa | CSIR |
| 2. Hester Catharina Stark, a citizen of South Africa, c/o CSIR Scientia, Meiring Naudé Road Brummeria, 0184, Pretoria South Africa | CSIR |
| 3. Martha Magaretha O'Kennedy, a citizen of South Africa, c/o CSIR Scientia, Meiring Naudé Road Brummeria, 0184, Pretoria South Africa | CSIR |

hereinafter ASSIGNORS, herewith declare that we are inventors of the invention entitled:

PLANT-PRODUCED CHIMAERIC ORBIVIRUS VLPS

for which an application was filed with the

Patent Office

United States Patent and Trademark Office

as outlined below:

| <u>Case No.</u> | <u>Country</u> | <u>Filing Date</u> | <u>Serial No.</u> |
|-----------------|----------------|--------------------|-------------------|
| 11170.001US1 | US | 2017-04-19 | 16/095,264 |

ASSIGNOR acknowledges the transfer to

CSIR
 Scientia, Meiring Naudé Road
 Brummeria, 0184, Pretoria
 South Africa

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

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

ASSIGNEE by virtue of this assignment thereof shall have the exclusive right and is fully entitled to claim priority of the application 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 on the application, including any and all divisions, reissues, reexaminations, continuations, continuation-in-part, conversions and extensions thereof for the full term or terms for which the same may be granted, and to maintain any patent granted thereupon and to discontinue any patents or patent applications as it deems appropriate.

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

"I hereby grant Assignee's attorneys, all of FisherBroyles LLP, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known."

This agreement shall be governed and construed in accordance with substantive laws of California. The competent courts of California shall have exclusive jurisdiction.

ASSIGNORS

Pretoria, 22 January 2019

Place, Date

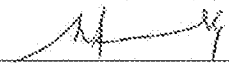

Daria Anna Rutkowska

PRETORIA, 22 JANUARY 2019

Place, Date


Hester Catharina Stark

Pretoria, 22 January 2019
Place, Date


Martha Magaretha O'Kennedy

ASSIGNEE

CSIR

Pretoria, 18 Jan 2019
Place, Date

Bathumelo Semete-Mokoetle
Name:

Title: Executive Director, CSIR Biosciences

