

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3528589

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAULRAJ LAWRENCE	06/16/2015
RUSSELL BEY	06/12/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MERIAL INC.
<b>Street Address:</b>	3239 SATELLITE BLVD.
<b>City:</b>	DULUTH
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30096
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14716481
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(678)638-3350
<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>	
<b>Phone:</b>	678-638-3805
<b>Email:</b>	tiki.cantrell@merial.com
<b>Correspondent Name:</b>	JUDY JARECKI-BLACK,PH.D.,J.D.
<b>Address Line 1:</b>	3239 SATELLITE BLVD.
<b>Address Line 4:</b>	DULUTH, GEORGIA 30096
<b>ATTORNEY DOCKET NUMBER:</b>	MER 14-236
<b>NAME OF SUBMITTER:</b>	TIKI CANTRELL
<b>SIGNATURE:</b>	/TIKI CANTRELL/
<b>DATE SIGNED:</b>	09/16/2015
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

We:

**LAWRENCE, Paulraj**  
**4462 Snelling Avenue N.**  
**Arden Hills, MN 55112**  
**US**

**BEY, Russell**  
**2604 Darling Drive NW**  
**Alexandria, MN 56308**  
**US**

being the inventors of certain improvements in the international application entitled: **“RECOMBINANT SPIKE PROTEIN SUBUNIT BASED VACCINE FOR PORCINE EPIDEMIC DIARRHEA VIRUS (PEDV)”** for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto **MERIAL INC.**, having a place of business at **3239 Satellite Blvd., Duluth, Georgia 30096 U.S.A.**, its successors and assigns (1) the entire right, title and interest in all countries throughout the world in and to any and all of my/our inventions and discoveries in my/our United States utility patent application filed on **May 19, 2015**, subsequently identified as U.S. Patent Application No. **14/716,481** and International Patent Application, filed under the Patent Cooperation Treaty in the United States Receiving Office (RO/US) on **May 19, 2015**, subsequently identified as International Patent Application No. **PCT/US15/31596**, and designating all PCT member countries/states, as well as in any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of **MERIAL INC.**, or their designee’s election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right title and interest in and to any Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following priority application(s):

**United States Provisional Application No. 62/000,240, filed 19 May 2014**

and all rights of priority in any country of the world deriving from the above-identified International Application.

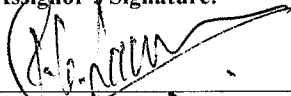
I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to **MERIAL INC.** as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of MERAL INC., to execute and to deliver to MERAL INC. any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree, at any time, upon request of MERAL INC., to execute and to deliver to MERAL INC., such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do what is necessary to give full effect to and to perfect any and all rights of MERAL INC., under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

In testimony of which I have hereupon affixed my signature, it is my intention that this Assignment instrument be effective, and all rights transferred herein shall be considered to have vested in MERAL INC., as of the 19 May 2014, the filing date of United States Provisional Application No. 62/000,240 from which earliest priority is hereby claimed.

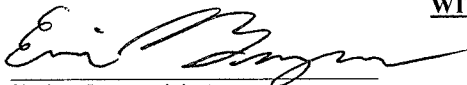
(1) Assignor's Signature:



Name: Paulraj LAWRENCE

16 Jun 2015 2015  
Date

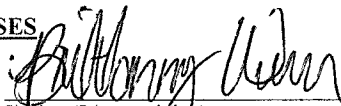
WITNESSES



Sign here (Print name below)

Witness 1: 16 Jun 15

Eric Bungard



Sign here (Print name below)

Witness 2: Brittanny Wiener

(2) Assignor's Signature:

Name: Russell BEY

\_\_\_\_\_, 2015  
Date

WITNESSES

Sign here (Print name below)

Witness 1: \_\_\_\_\_

Sign here (Print name below)

Witness 2: \_\_\_\_\_

I agree, at any time, upon the request of MERAL INC., to execute and to deliver to MERAL INC. any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

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(1) Assignor's Signature:

Name: Paulraj LAWRENCE Date: \_\_\_\_\_, 2015

WITNESSES

Sign here (Print name below)  
Witness 1: \_\_\_\_\_

Sign here (Print name below)  
Witness 2: \_\_\_\_\_

(2) Assignor's Signature:

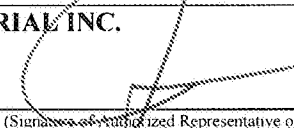
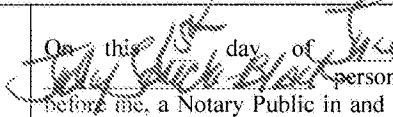
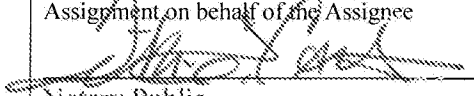
Name: Russell BEY Date: 6/12/ 2015

WITNESSES

Sign here (Print name below)  
Witness 1: Heather Pomeranz

Sign here (Print name below)  
Witness 2: LORE MULLVILLE

**ACKNOWLEDGEMENT OF ASSIGNEE**

<p><b>MERIAL INC.</b></p> <p>By:   <small>(Signature of Authorized Representative or Officer)</small></p> <p>Print Name: <u>Lucy J. Brecht-Black, Ph.D., J.D.</u>  <small>Assistant Secretary</small></p> <p>Title: _____</p>	<p>On this <u>14</u> day of <u>June</u>, 2015,   personally appeared  before me, a Notary Public in and for the State of  <u>Georgia</u> and duly acknowledged the executed  Assignment on behalf of the Assignee</p> <p>  Notary Public</p>
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NOTARY PUBLIC, FULTON COUNTY, GEORGIA  
MY COMMISSION EXPIRES

April 5, 2016