

## PATENT ASSIGNMENT COVER SHEET

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<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 KIRUBAKARAN LAWRENCE	11/24/2014
RUSSELL F. BEY	11/18/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Merial Limited
<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: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14528305
<b>PCT Number:</b>	US2014063099
<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.
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<b>ATTORNEY DOCKET NUMBER:</b>	MER 13-217
<b>NAME OF SUBMITTER:</b>	TIKI CANTRELL
<b>SIGNATURE:</b>	/TIKI CANTRELL/
<b>DATE SIGNED:</b>	03/15/2015
<b>Total Attachments: 3</b>	
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ASSIGNMENT

We:

**LAWRENCE, Paulraj Kirubakaran**  
**2257 Nobles Street**  
**Worthington, MN 56187**  
**US**

**BEY, Russell F.**  
**1157 Amble Drive**  
**Arden Hills, MN 55112**  
**US**

being the inventors of certain improvements in the international application entitled: "**Attenuated Pasteurella Multocida Vaccines & Methods of Making & Use Thereof.**" for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto **MERIAL LIMITED**, 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 **October 30, 2014,** subsequently identified as U.S. Patent Application No. **14/528,305** and International Patent Application, filed under the Patent Cooperation Treaty in the United States Receiving Office (RO/US) on **October 30, 2014,** subsequently identified as International Patent Application No. **PCT/US14/63099,** 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 LIMITED**, 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. 61/898,497, filed 01 November 2013**

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 LIMITED** 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 LIMITED, to execute and to deliver to MERAL LIMITED 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 LIMITED, to execute and to deliver to MERAL LIMITED, 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 LIMITED, 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 LIMITED, as of the 01 November 2013, the filing date of United States Provisional Application No. 61/898,497 from which earliest priority is hereby claimed.

(1) Assignor's Signature:

Name: Paulraj Kishanakaran Lawrence

11/24/2014, 2014  
Date

**WITNESSES**

Sign here (Print name below)

Witness 1: Vicky M. Ross

Sign here (Print name below)

Witness 2: Yvonne Hasselbach

(2) Assignor's Signature:

Name: Russell Bey

11/18, 2014  
Date

**WITNESSES**

Sign here (Print name below)

Witness 1: Heather Pomeroy

Sign here (Print name below)

Witness 2: Kim Moller

**ACKNOWLEDGEMENT OF ASSIGNEE**

<b>MERIAL LIMITED</b>  By: <u>[Signature]</u> <small>(Signature of Authorized Representative or Officer)</small>  Print Name: _____ Title: <u>Juldy Jarecki-Black, Ph.D., J.D.</u> <u>Assistant Secretary</u>	On this <u>15</u> day of <u>December</u> 2014, <u>Juldy Jarecki-Black</u> 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.  <u>[Signature]</u> Notary Public
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NOTARY PUBLIC, FULTON COUNTY, GEORGIA  
 MY COMMISSION EXPIRES April 3, 2016