

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4131004

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	NUNC PRO TUNC ASSIGNMENT
<b>EFFECTIVE DATE:</b>	03/17/2010
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PIERRE LACASSE	10/11/2012
MOUSSA S. DIARRA	10/11/2012
CÉLINE STER	10/10/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF AGRICULTURE AND AGRI-FOOD
<b>Street Address:</b>	2000 RUE COLLEGE
<b>City:</b>	SHERBROOKE
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	J1M 1Z3
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15344688
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	765/14870.14
<b>NAME OF SUBMITTER:</b>	ANNA FOVERO
<b>SIGNATURE:</b>	/ANNA FOVERO/
<b>DATE SIGNED:</b>	11/07/2016
<b>Total Attachments: 6</b>	
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**CONFIRMATION OF PAST ASSIGNMENT AND ASSIGNMENT OF INVENTION****UNIVERSAL**

WHEREAS, the invention entitled **BACTERIAL VACCINE COMPONENTS AND USES THEREOF** described in PCT Patent Application No. PCT/CA2011/050145 filed on March 17, 2011 which claims priority on 61/314,670 filed on March 17, or a part of said invention, was assigned on October 4, 2010 (hereinafter referred to as the "past assignment") by 1) Pierre Lacasse, 2) Moussa S. Diarra, and 3) Céline Ster, whose full addresses are 1) 4, Winder, Sherbrooke, Québec, Canada J1M 1L4, 2) 6950 Oakwood Dr., Agassiz, British Columbia, Canada V0M 1A2 and 3) 97, Oxford Crescent, App. # 310, Sherbrooke, Québec, Canada J1M 2G3 (hereinafter referred to as the Assignor) to Her Majesty the Queen in Right of Canada as represented by the Minister of Agriculture and Agri-Food, whose full post office address is 2000, rue Collège, Sherbrooke, Québec, Canada J1M 1Z3 (hereinafter referred to as the Assignee). I/We hereby authorize and request my/our patent agent to insert missing information above and information regarding any additional application covering the same invention when known here in parentheses (Country Canada, Application No. \_\_\_\_\_, filed \_\_\_\_\_; Country United States, Application No. 13/583,054, filed September 6, 2012; Country Europe, Application No. \_\_\_\_\_, filed \_\_\_\_\_; Country \*, Application No. US 14/513,987, filed 10/14/2014; Country \*, Application No. \_\_\_\_\_, filed \_\_\_\_\_); and

WHEREAS the Assignor and the Assignee are desirous of confirming this past assignment;

WHEREAS the Assignor is desirous of assigning and the Assignee is desirous of obtaining any part of said invention not previously assigned.

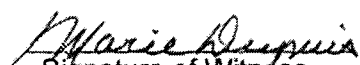

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignor

has, and by these present do hereby sell, assign and transfer unto said Assignee, its successors and assigns, the Assignor's entire right, title and interest in and to said part of said invention not previously assigned as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any applications based thereon filed in any foreign country, including the right to file said foreign applications under the provisions of the Patent Cooperation Treaty and under the Paris Convention; also the Assignor's entire right, title and interest in and to any and all patents, reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part, substitute application(s) or supplementary disclosure(s) which may be filed upon said invention or inventions, in any country; and the Assignor hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said Assignee.

The Assignors further agrees, without any payment by said Assignee other than expenses incurred by the undersigned, to communicate to said Assignee, its representatives or agents, any facts useful as evidence for interference purposes or for other proceedings relating to intellectual property encompassing the invention, whenever requested; testify in any interference, litigation or other proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon the Assignor's heirs, legal representatives, administrators and assigns.

Les soussignés désirent que la présente cession soit rédigée en anglais. The undersigned request that the present assignment be drafted in English.

IN WITNESS WHEREOF, the Assignors and Assignee have hereunto set their hands and seal.

 Signature of Witness	<u>10-11-2012</u> MM/DD/YYYY	 Pierre Lacasse
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MARIE DUPUIS  
Name of Witness

_____ Signature of Witness	_____ MM/DD/YYYY	_____ Moussa S. Diarra
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.....  
Name of Witness

_____ Signature of Witness	_____ MM/DD/YYYY	_____ Céline Ster
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.....  
Name of Witness

IN WITNESS WHEREOF, the Assignors and Assignee have hereunto set their hands and seal.

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
MM/DD/YYYY

\_\_\_\_\_  
Pierre Lacasse

-----  
Name of Witness

Heidi Rempel  
Signature of Witness

10/11/2012  
MM/DD/YYYY

Moussa S. Diarra  
Moussa S. Diarra

HEIDI REMPEL  
Name of Witness

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
MM/DD/YYYY

\_\_\_\_\_  
Céline Ster

-----  
Name of Witness

IN WITNESS WHEREOF, the Assignors and Assignee have hereunto set their hands and seal.

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
MM/DD/YYYY

\_\_\_\_\_  
**Pierre Lacasse**

\_\_\_\_\_  
Name of Witness

\_\_\_\_\_  
Signature of Witness


\_\_\_\_\_  
MM/DD/YYYY

\_\_\_\_\_  
**Moussa S. Diarra**

\_\_\_\_\_  
Name of Witness

  
Signature of Witness

10/10/2012  
MM/DD/YYYY

  
\_\_\_\_\_  
**Céline Ster**

Simon Bouchard  
Name of Witness


WITNESS(ES)

DATE

ASSIGNEE(S)

  
Signature of Witness

10/12/2012  
MM/DD/YYYY

  
Signature of authorized representative  
of Her Majesty the Queen in Right of  
Canada as represented by the  
Minister of Agriculture and Agri-Food

Ginette Tremblay  
Name of Witness

Anita Ploj  
Name of authorized representative of  
Her Majesty the Queen in Right of  
Canada as represented by the  
Minister of Agriculture and Agri-Food

Director, Office of Intellectual Property  
and Commercialization

Title of authorized representative of  
Her Majesty the Queen in Right of  
Canada as represented by the  
Minister of Agriculture and Agri-Food

The Assignment is executed nunc pro tunc as of March 17, 2010