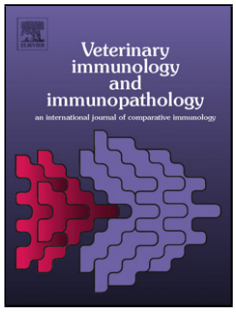

Title: Temporal evolution of anti-*Clostridium* antibody responses in sheep after vaccination with polyvalent Clostridial vaccines

Authors: Andrea Rossi, Amy Mónaco, Julio Guarnaschelli, Fernando Silveira, Andrés Iriarte, Arndt G. Benecke, José A. Chabalgoity

PII: S0165-2427(17)30421-X
DOI: https://doi.org/10.1016/j.vetimm.2018.06.010
Reference: VETIMM 9768

To appear in: *VETIMM*

Received date: 27-9-2017
Revised date: 31-5-2018
Accepted date: 10-6-2018

Please cite this article as: Rossi A, Mónaco A, Guarnaschelli J, Silveira F, Iriarte A, Benecke AG, Chabalgoity JA, Temporal evolution of anti-*Clostridium* antibody responses in sheep after vaccination with polyvalent Clostridial vaccines<CHK-Error value=Ärticle Title is Mismatching from Order.̈/>, *Veterinary Immunology and Immunopathology* (2018), https://doi.org/10.1016/j.vetimm.2018.06.010

Temporal evolution of anti-*Clostridium* antibody responses in sheep after vaccination with polyvalent Clostridial vaccines

Andrea Rossi[1], Amy Mónaco[1], Julio Guarnaschelli[1], Fernando Silveira[1], Andrés Iriarte[1], Arndt G. Benecke[2,3], José A. Chabalgoity[1]*

[1]Departamento de Desarrollo Biotecnológico, Instituto de Higiene, Facultad de Medicina, Universidad de la República, Montevideo, Uruguay;[2]CNRS UMR8246, Institut de Biologie Paris Seine, Université Pierre et Marie Curie, Paris, France; [3]Center for Innate Immunity and Immune Disease, University of Washington School of Medicine, Seattle, Washington, USA.

* Corresponding author. Mailing address: Laboratory for Vaccine Research, Dpto.Desarrollo Biotecnológico, Instituto de Higiene, Facultad de Medicina, Avda. A. Navarro 3051, Montevideo, Uruguay, CP 11200. Phone: (598 2) 487 12 88, ext. 1120. Fax: (598 2) 487 30 73. E-mail: jachabal@higiene.edu.uy

Highlights

- The two different 9-valent Clostridial vaccines induced an antibody response against each of the *Clostridium* species soon after vaccination in sheep.
- *C. tetani* and *C. novyi* type B appeared as inmunodominant antigens.
- Antibody responses elicited by each of the vaccines tested were highly scattered amongst individual animals for all the antigens involved.