Accepted Manuscript

Title: The influence of selenium and selenoproteins on

immune responses of poultry and pigs

Authors: Tina S. Dalgaard, Mickaël Briens, Ricarda M.

Engberg, Charlotte Lauridsen

PII: S0377-8401(17)31572-9

DOI: https://doi.org/10.1016/j.anifeedsci.2018.01.020

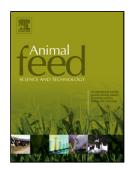
Reference: ANIFEE 13938

To appear in: Animal Feed Science and Technology

Received date: 18-12-2017 Revised date: 26-1-2018 Accepted date: 29-1-2018

Please cite this article as: Dalgaard, Tina S., Briens, Mickaël, Engberg, Ricarda M., Lauridsen, Charlotte, The influence of selenium and selenoproteins on immune responses of poultry and pigs. Animal Feed Science and Technology https://doi.org/10.1016/j.anifeedsci.2018.01.020

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



The influence of selenium and selenoproteins on immune responses of poultry and

pigs

Tina S. Dalgaard^a: tina.dalgaard@anis.au.dk Mickaël Briens^b: Mickael.Briens@adisseo.com

Ricarda M. Engberg^a: <u>ricarda.engberg@anis.a</u>u.dk Charlotte Lauridsen^{a*}:

charlotte.lauridsen@anis.au.dk

^a Dept. of Animal Science, Aarhus University, Blichers allé 20, 8830 Tjele, Denmark

^b Adisseo France, CERN, 6 Route Noire, 03600 Commentry, France

*Corresponding author.

E-mail address: charlotte.lauridsen@anis.au.dk

HIGHLIGHTS

Updated literature overview about selenium and selenoproteins on immune responses of

poultry and pigs is provided

Sources of Selenium and assessment of Se-status are described

The role of selenium in the immunity of poultry and swine is discussed

The importance of selenium for infectious diseases in poultry and pigs is widely discussed

An overview of the current knowledge on the influence of selenium on immune responses in

poultry and pigs and the relationship to infectious diseases is provided

Abstract

Selenium is an essential nutrient for poultry and pigs, and is important for a number of physiological

processes including regulation and function of the immune system. Through its incorporation into

selenoproteins, Se is involved in the regulation of oxidative stress, redox mechanisms, and other

crucial cellular processes involved in innate and adaptive immune response.

1

Download English Version:

https://daneshyari.com/en/article/8490998

Download Persian Version:

https://daneshyari.com/article/8490998

<u>Daneshyari.com</u>