

Accepted Manuscript

Title: Expression of Toll-like receptors 2, 4 and 6 in different cell populations of the equine endometrium

Authors: Sandra Schöniger, Hilke Gräfe, Heinz-Adolf Schoon



PII: S0165-2427(17)30025-9
DOI: <http://dx.doi.org/doi:10.1016/j.vetimm.2017.01.002>
Reference: VETIMM 9593

To appear in: *VETIMM*

Received date: 15-6-2016
Revised date: 7-11-2016
Accepted date: 19-1-2017

Please cite this article as: Schöniger, Sandra, Gräfe, Hilke, Schoon, Heinz-Adolf, Expression of Toll-like receptors 2, 4 and 6 in different cell populations of the equine endometrium. *Veterinary Immunology and Immunopathology* <http://dx.doi.org/10.1016/j.vetimm.2017.01.002>

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.

Short communication

Expression of Toll-like receptors 2, 4 and 6 in different cell populations of the equine endometrium

Sandra Schöniger*, Hilke Gräfe, Heinz-Adolf Schoon

Institute of Pathology, Faculty of Veterinary Medicine, Leipzig University, An den Tierkliniken 33, 04103 Leipzig, Germany

* Corresponding author at: Institute of Pathology, Faculty of Veterinary Medicine, Leipzig University, An den Tierkliniken 33, 04103 Leipzig, Germany

E-mail address: sandra.schoeniger@vetmed.uni-leipzig.de (S. Schöniger)

Highlights

- Expression of TLRs 2, 4 and 6 within the healthy and diseased equine endometrium
- Immunostaining for these TLRs in epithelia, stromal cells, mast cells and vessels
- Immunosignal within the cytoplasm of these cells and in epithelia also intranuclear
- Marked differences in regard to their cellular expression between individual mares
- Results as prerequisite for studies into their impact on disease pathogenesis

Abstract

Subfertility in mares is mainly caused by endometrial diseases. Alterations of Toll-like receptors (TLRs) are associated with endometrial disorders in women. This study investigated TLRs 2, 4 and 6 in the equine endometrium. Endometria of 21 mares were examined by histology, PCR and immunohistochemistry. Tissues from 2 mares were considered normal. The remaining showed endometritis, endometrosis and/or angiosclerosis. TLRs 2, 4 and 6 were expressed as transcripts and proteins in all endometria. Immunohistochemistry detected TLRs 2, 4 and 6 in mast cells, luminal and glandular epithelial cells, stromal cells, endothelia,

Download English Version:

<https://daneshyari.com/en/article/5544778>

Download Persian Version:

<https://daneshyari.com/article/5544778>

[Daneshyari.com](https://daneshyari.com)