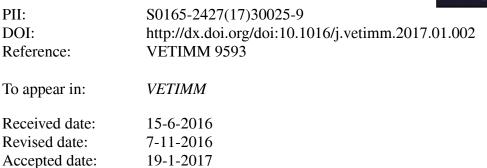
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ACCEPTED MANUSCRIPT

Short communication

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

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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:

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