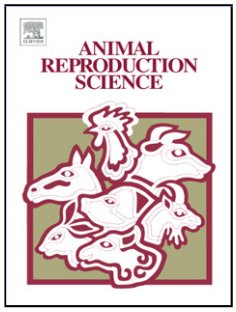

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Involvement of lipopolysaccharide in ovarian cystic follicles in dairy cow: Expressions of LPS receptors and steroidogenesis-related genes in follicular cells of cystic follicles

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Highlights

- LPS was present in follicular fluid in bovine ovarian cystic follicles.
- Expression of LH receptor in granulosa and thecal cells of cystic follicles were lower than healthy follicles.
- High LPS in follicular fluid of cystic follicles may suppress expression of steroidogenesis-related genes in follicular cells.

Abstract

In ovarian cystic follicles, molecular changes in the growing follicle may have a local action and contribute to anovulation and cystic formation. One of the candidate molecules that affect the steroid and gonadotropin signaling systems of cystic follicles is