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Animal Reproductive Physiology

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Message from the Guest Editor

Dear Colleagues,

The use of domestic animals as models for biomedical research has advanced the field of reproductive physiology for both agriculture and human reproduction. It is becoming increasingly apparent that several human reproductive processes are more similar to livestock animals such as cattle, sheep, and pigs than rodent models. Moreover, the human genome is more similar to cattle, sheep, and pigs compared to rodents, and may serve as better models for some genetic diseases. With respect to pregnancy, farm animals hold a great deal of promise for advancing our understanding of reproductive processes associated with ovarian steroidogenesis, embryo development and implantation, the formation of the placenta, and fetal development, in hopes of developing therapies for humans suffering from infertility and other pregnancy diseases such as preeclampsia and intrauterine growth restriction.

Prof. Dr. Ryan Ashley
Guest Editor



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