

Special Issue

Advances in Ruminant Ovarian Physiology

Message from the Guest Editor

Ruminant ovarian physiology is comparable among mammals, including monogastric species such as humans. Mammalian follicular development occurs sequentially and is highly regulated. It should be noted that the differences between each follicle category involve not only the antral cavity, but also the metabolism status of follicular cells. And in vitro follicle growth success depends on initial oocyte size and follicle category.

Embryos have been produced from preantral follicles in goats and sheep. However, after in vitro culture of bovine preantral follicles, only antral cavity formation was observed. On the other hand, while bovine species exhibit high embryo production rates from antral follicles, the production of embryos from antral follicles that have been matured in vivo or in vitro is too low in caprine and ovine species, indicating significant research gaps in ruminant folliculogenesis.

This Issue aims to highlight ruminant folliculogenesis in species like bovines, caprines, and ovines. Original research articles and reviews are welcome. Topics may include (but are not limited to) the following:

- Folliculogenesis;
- Oocyte maturation;
- Embryo production.

Guest Editor

Prof. Dr. Valdevane Rocha Araújo

Laboratório de Fisiologia Reprodutiva (FisioRep Laboratory),
Universidade Federal do Delta do Parnaíba (UFDPAr), Parnaíba, PI,
Brazil

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Animals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
animals@mdpi.com

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia
2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, Australia

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