

Special Issue

Advances in the Understanding of Testicular Function and Semen Quality in Male Ruminants Implications for Fertility Management

Message from the Guest Editor

The purpose of this Special Issue is to collect the latest scientific achievements that address the recent advances and innovative strategies designed to enhance the reproductive efficiency of male ruminants and to stimulate a discussion on applied reproduction in male ruminant animals, focusing on the following topics:

- Molecular and cellular mechanisms regulating spermatogenesis and steroidogenesis
- Advances in semen quality evaluation methods and cryopreservation technologies
- Nutritional and environmental factors affecting reproductive performance
- Emerging biotechnological approaches coupled with the integration of molecular biomarkers, transcriptomic and proteomic data, offering deeper insights into the mechanisms governing male fertility

By bringing together cutting-edge research and expert perspectives, this Special Issue aims to advance knowledge in the field and promote the development of innovative strategies to enhance the reproductive efficiency of male ruminants. We look forward to receiving your contributions.

Guest Editor

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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.

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