

Special Issue

Advances in Livestock Reproductive Immunology: From Bench to Barn

Message from the Guest Editor

The reproductive immune system combines local tissue tolerance with systemic homeostasis, shaping fertility and pregnancy outcomes in livestock. Understanding how immune mechanisms regulate conception, implantation, and placental development is essential in improving both animal health and production efficiency. For this Special Issue, “Advances in Livestock Reproductive Immunology: From Bench to Barn”, we invite the submission of studies connecting mechanistic immunology with real-world reproductive performance. Topics of interest include maternal–fetal immune crosstalk, infection-driven infertility, immune–endocrine regulation of uterine function, cytokine and interferon signaling, and immune biomarkers predicting reproductive success. We welcome integrative approaches that combine laboratory discoveries with field or herd-level applications, including in vitro models, spatial and AI-based tissue analysis, and immunomodulatory interventions improving fertility in cattle, small ruminants, pigs, and horses. The goal is to bridge the gap between fundamental immunology and applied animal science, advancing reproductive efficiency through understanding of immune health in livestock.

Guest Editor

Dr. Lilian J. Oliveira

Department of Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA 30602, USA

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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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About the Journal

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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