

## Special Issue

# Nutritional and Metabolic Influences on Animal Growth and Reproduction

### Message from the Guest Editors

This Special Issue focuses on how nutrients and metabolites affect animal growth and reproduction, including their roles in transforming feed into high-quality protein and essential minerals. Nutrients and metabolites impact health, growth, and disease prevention in mammals, birds, fish, and crustaceans. Metabolomics, studying low-molecular-weight metabolites, reveals changes in metabolic states during growth and development. It bridges genomics, transcriptomics, proteomics, and phenotype. Topics include metabolite changes, effects of nutritional feed, adaptation to environmental stresses, and the optimization of animal traits for better diet and health.

### Guest Editors

Dr. Zhipeng Li

State Key Laboratory for Conservation and Utilization of Subtropical Agro-Bioresources, Guangxi University, Nanning 530004, China

Dr. Baichuan Deng

College of Animal Science, South China Agricultural University, Guangzhou 510642, China

### Deadline for manuscript submissions

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## Metabolites

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*Metabolites*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metabolites@mdpi.com](mailto:metabolites@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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### Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).