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

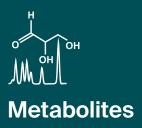
State Key Laboratory for Conservation and Utilization of Subtropical Agro-Bioresources, Guangxi University, Nanning 530004, China

Dr. Baichuan Deng

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

Deadline for manuscript submissions

30 October 2025



an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



mdpi.com/si/218974

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

mdpi.com/journal/metabolites





Metabolites

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



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.

Editor-in-Chief

Dr. Amedeo Lonardo

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

Rapid Publication:

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).

