

Special Issue

Advances in Metabolomics for Animal Health and Nutrition

Message from the Guest Editors

This Special Issue, *Advances in Metabolomics for Animal Health and Nutrition*, highlights recent progress in applying metabolomic technologies to improve animal health, nutrition, and production. By profiling small-molecule metabolites, metabolomics offers deep insights into how animals respond to diet, disease, stress, and microbiome changes. Covering livestock, poultry, aquaculture species, and companion animals, the featured studies explore biomarker discovery, nutrient utilization, responses to feed additives, and host–microbiome interactions. Techniques such as mass spectrometry and NMR spectroscopy, combined with multivariate analysis, are used to decode complex metabolic patterns. This collection also emphasizes integrative approaches that combine metabolomics with genomics, transcriptomics, and proteomics to enable precision nutrition and sustainable animal production. Together, these contributions demonstrate the value of metabolomics as both a diagnostic and predictive tool in advancing modern animal science. Prof.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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