



## Proteomics and Metabolomics in Veterinary and Animal Health

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### Message from the Guest Editors

Omics sciences have infiltrated all scientific areas of research over the past few years. As such, proteomics and metabolomics have also been widely explored in veterinary medicine research, showing their full potential in deciphering various pathophysiological processes in animal health and disease at the molecular level. By applying advanced bioinformatic and statistical tools, the integration of multiomics data provides deeper insights into biological pathways and complex molecular interplay, highlighting the key molecules of interest from diagnostic, prognostic, and drug development perspectives. Furthermore, given the ethical concerns of animals as animal models, as well as animal welfare, the omics approach in veterinary medicine can provide a significant contribution to physiopathology studies for human diseases as part of comparative medicine.

This Special Issue is devoted to topics covering (not exclusively) studies on the application of metabolomics or multiomics layers, namely various proteomic and metabolomics strategies, combined with statistical models and/or bioinformatics approaches in animal health and disease.





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## 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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