



Advances in Equine Metabolomics

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Message from the Guest Editors

The study of metabolites makes it possible to observe changes in the chemical and biochemical composition of biological fluids and tissues. The evaluation of metabolite profiles makes it possible to identify alterations to an organism's physiology and/or the mechanism of adaptation of the animal in an attempt to restore homeostasis during various physiological and management conditions (e.g., pregnancy, lactation, neonatal period, aging, exercise, transport). To investigate the complexity of these responses, "omics" approaches including multivariate and large-scale analyses may be applied. Pioneering proteomic studies have demonstrated that variation in the proteomic fingerprint occurs in healthy animals during peculiar physiological states. The horse is an optimal *in vivo* model for characterizing physiological responses to homeostasis perturbation due to their natural aptitude for athletic performance and the homogeneity of their genetic and environmental backgrounds. In line with this, the Special Issue welcomes metabolomics studies developing insight into the metabolic adaptations and perturbations associated with any physiological state of life in equids.





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Message from the Editor-in-Chief

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