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Trends and Future Directions in Urinary Proteome and Metabolome Analysis for Veterinary Medicine

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Message from the Guest Editors

Urine is an ideal biological sample to obtain important clinical information because it can be collected easily with noninvasive procedures in easily stressed animals, and is readily amenable to the tools of proteomics and metabolomics. In humans, the study of the urinary proteome began in the last decades of the twentieth century, leading to the identification of at least 3000 different proteins and peptides. Urinary proteomics and metabolomics are less-exploited but promising tools in veterinary medicine. Few studies are reported in the literature, mostly focused on farm and companion animals (cows, sheep, goats, dogs and cats) or on selected nonconventional species (giraffes, camels, big cats, sea lions). The characterization of the urinary proteome and metabolome provides unique insight into the animal's normal physiological state. Moreover, urinary proteins and metabolites can be tested in clinical trials to validate their potential use as sensitive and specific biomarkers of disease. The aim of this Special Issue is to present new research on the application of a multi-omics approach for the study of the urinary proteome and metabolome in veterinary medicine.



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Special Issue



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Message from the Editor-in-Chief

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