

Special Issue

Omics Analysis in Veterinary Medicine and Animal Science

Message from the Guest Editors

Omics methodologies (genomics, transcriptomics, metabolomics, and proteomics) have become important tools in veterinary medicine and animal sciences. These experimental approaches have the potential to lead to new basic and applied understandings of biological processes in animals to improve animal health, welfare and the quality of food animal products either directly or by generating new hypotheses and ideas for hypothesis-driven research. Genomics, for instance, has revolutionized how we make genetic associations with phenotypes of interest, from production traits to animal health, host–pathogen interactions and disease resistance, while proteomics in veterinary and animal science is an evolving field which holds a great promise not only for fundamental and applied discoveries regarding the biology and pathology of animals, with particular emphasis on (but not limited to) domestic species, but also in all aspects related to zoonoses, with an ever growing impact on human health.

Guest Editors

Prof. Dr. Gabriella Tedeschi

Department of Veterinary Medicine, Università degli Studi di Milano, Milan, Italy

Dr. Elisa Maffioli

Department of Veterinary Medicine, Università degli Studi di Milano, Milan, Italy

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

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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