



Omics Analysis in Veterinary Medicine and Animal Science

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

Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

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.

Prof. Dr. Gabriella Tedeschi

Dr. Elisa Maffioli

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)