



Molecular Detection of Antimicrobial Resistance in Animal Infectious Diseases

Guest Editors:

Dr. Alessandra Piccirillo

Department of Comparative
Biomedicine and Food Science,
University of Padua, 35020
Legnaro, PD, Italy

Dr. Andrea Laconi

Department of Comparative
Biomedicine and Food Science,
University of Padua, Padua, Italy

Deadline for manuscript
submissions:

closed (15 December 2022)

Message from the Guest Editors

Dear Colleagues,

In recent years, antimicrobial resistance has become a serious concern for animal and human health. Indeed, a high demand for fast and reliable methods for the rapid detection of antimicrobial-resistant bacteria and determinants, even when testing a large number of samples, is required due to the increasing threat posed by antimicrobial resistance. In particular, high-throughput technologies are able to generate an amount of data and information that can be very helpful in understanding the molecular basis of this complex issue. We welcome original research papers and reviews dealing with:

- 1) Occurrence and circulation of resistant bacteria in food-producing animals as detected by high-throughput technologies;
- 2) Molecular detection and epidemiology of resistant food-borne pathogens in domestic animal populations and their environment;
- 3) Use of high-throughput technologies for improving the knowledge and covering the gap in the molecular basis of resistance determinants in domestic animals;
- 4) Development of new technologies and protocols for detecting antimicrobial resistance determinants in animal bacteria.

Alessandra Piccirillo

Andrea Laconi

Special Issue





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia
2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, Australia

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

Journal Rank: JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

Contact Us

Animals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/animals
animals@mdpi.com
[X@Animals_MDPI](#)