Special Issue

Emerging and Re-emerging Domestic Animal Parasites: Implications for One Health

Message from the Guest Editor

Emerging and re-emerging parasitic infections in domestic animals pose significant global challenges for animal and human health. Molecular techniques have revolutionized our understanding of these parasites, providing valuable insights into their genetic diversity, epidemiology, and pathogenesis. The proposed Special Issue will focus on using molecular approaches to better understand these parasites and develop effective control strategies. One major advantage of molecular techniques is their ability to rapidly identify and characterize new or previously unknown pathogens. For example, PCR-based assays have been developed for detecting and identifying various parasitic infections, including those caused by protozoa, helminths, and arthropods. Next-generation sequencing technologies have also allowed for high-throughput sequencing of parasite genomes, enabling researchers to investigate genetic diversity and identify novel targets for drug and vaccine development.

Guest Editor

Dr. Kun Li

Institute of Traditional Chinese Veterinary Medicine, College of Veterinary Medicine, Nanjing Agricultural University, Nanjing 210095, China

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

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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