



Advances in the Diagnosis, Detection, Epidemiology, and Control of *Toxoplasma gondii*

Guest Editors:

Dr. Gereon R. M. Schares

Dr. Marco Lalle

Prof. Dr. Olgica Durkovic-Dakovic

Deadline for manuscript
submissions:
closed (31 March 2022)

Message from the Guest Editors

Toxoplasma gondii is one of the most important zoonotic parasites in the world. Several routes of infection are possible in animals and humans and three different parasitic stages (oocysts, tissue cysts, and tachyzoites) are involved. In addition, a genetically diverse population, consisting of an increasing number of diverse haplogroups with different virulence characteristics for individual infected host species, further complicates our understanding of this parasite's epidemiology. Moreover, *T. gondii* has an extremely broad host spectrum and parasitic stages. Despite continuing efforts, drug options for toxoplasmosis are scarce, often require combinational therapy. Vaccination approaches would be ideal considering the zoonotic nature of toxoplasmosis.

This Special Issue aims to present a collection of articles on novel diagnostic and detection techniques, their improvement, standardization, and harmonization, and their application in studies to elucidate the epidemiology and transmission of *T. gondii* as well its genetic composition. Studies exploring new promising drug treatment and vaccination approaches, especially in animals, are also welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

Message from the Editor-in-Chief

"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.

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, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology*)

Contact Us

Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI