

# Special Issue

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

### 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.

---

### Guest Editors

Dr. Gereon R. M. Schares

Dr. Marco Lalle

Prof. Dr. Olgica Durkovic-Dakovic

---

### Deadline for manuscript submissions

closed (31 March 2022)



**Microorganisms**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 4.2**  
**CiteScore 7.7**  
**Indexed in PubMed**



[mdpi.com/si/63009](https://mdpi.com/si/63009)

*Microorganisms*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[microorganisms@mdpi.com](mailto:microorganisms@mdpi.com)

[mdpi.com/journal/  
microorganisms](https://mdpi.com/journal/microorganisms)





## Microorganisms

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 7.7  
Indexed in PubMed



[mdpi.com/journal/  
microorganisms](https://mdpi.com/journal/microorganisms)



## About the Journal

### 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.

---

### Editor-in-Chief

Dr. Nico Jehmlich

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).