



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

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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.





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Message from the Editor-in-Chief

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