

Special Issue

Molecular Perspectives in the Diagnosis, Prevention, Treatment, and Vaccination against Parasitic Diseases

Message from the Guest Editors

Recent years have shown that climate change, urbanization, human population growth, and its interference with the natural environment translate into incidences of parasitic diseases among intermediate and final hosts. Moreover, we observe that parasitic diseases that have so far been characteristic of tropical zones are more and more often detected in other parts of the globe, resulting from global warming and, consequently, the migration of parasitic disease vectors and their final hosts. Additionally, the very common and well-known parasite infections caused by others members of Apicomplexa still pose a significant threat to the health and even survival of their hosts. This constitutes a huge challenge for research centers searching for new and effective drugs and/or vaccines that could increase the effectiveness of combating and counteracting parasitosis. The techniques used in molecular biology, genetic engineering, biochemical research, pharmacology, etc., allows for the improvement of existing and the development of new diagnostic methods, as well as the design of effective strategies for the control and prevention of parasitic diseases.

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