Special Issue

Molecular Interactions between Trypanosomatidae Parasites and Their Hosts: From Infection to Pathogenesis and Control

Message from the Guest Editors

Despite extensive research and intervention that has so far been performed, more than 30 million people worldwide are still infected by pathogens belonging to the Trypanosomatidae family and as many as 100,000 persons die every year from Trypanosoma brucei spp., T. cruzi, or Leishmania spp. infections. Besides their medical impact, these unique unicellular eukaryotes can also infect cattle, pets, wildlife, therefore having an impact on food security in areas where they are present. The long evolutionary history of these parasites with their host has shaped the balance between attack, transmission, and defense strategies. Therefore, characterization of molecular dialogues and conflicts that Trypanosomatidae parasites maintain with their arthropod, vertebrate hosts are of help to develop innovative tools in order to combat these infections.

We invite you to send relevant contributions, either in the form of original research or review papers, covering different aspects of Trypanosomatidae diversity, including molecular and cell biology, immunology, diagnosis, host–parasite interaction, vector biology, epidemiology-derived control tools, and development of vaccines and drugs.

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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.

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