

Special Issue

Molecular Advances in Zoonoses and Vector-Borne Diseases

Message from the Guest Editor

Zoonotic and vector-borne diseases remain leading causes of human and animal morbidity. Globally, infections due to malaria, leishmaniasis, helminthic diseases, zoonotic emerging viral diseases, and gastrointestinal diseases affect hundreds of millions of people each year. Molecular approaches to these diseases—including improved techniques of epidemiology, study of immunobiology, discovery of biomarkers, surveillance of animal reservoirs, vaccine development, and drug discovery—offer hope for earlier detection, prevention, and treatment of these afflictions. This Special Issue showcases the latest molecular advances spanning this broad group of diseases, with emphasis on applications in human and animal populations. Featured themes include drug discovery for leishmaniasis, molecular tools for monitoring soil-transmitted helminths, and paratransgenic approaches aimed at interrupting vectorial-borne transmission of human parasites. Suitable topics include, but are not limited to, molecular tools of disease surveillance, vaccine development for parasitic diseases, drug discovery and repurposing for parasitic diseases, vector paratransgenesis, and biomarker discovery.

Guest Editor

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