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Molecular Epidemiology, Genomics, and Functional Genomics of Zoonotic Parasites

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Message from the Guest Editors

Zoonotic parasitic diseases are of public health and veterinary importance and can cause severe morbidity and mortality in both humans and animals worldwide. Knowledge about epidemiology, genomics, and interactions of zoonotic parasitic diseases is essential for control strategies and public policies to be adopted effectively. Molecular epidemiology can reveal insights into zoonotic parasite transmission dynamics, host adaptation, and geographic spread. Genomic analysis is crucial for deciphering zoonotic parasite genetics, identifying virulence factors, and guiding targeted therapeutics. Multi-omics research provides a new perspective and in-depth understanding of pathogenesis, diagnosis, treatment, and drug development for zoonotic parasitic diseases by integrating biological data from multiple levels such as genomics, transcriptomics, proteomics, and spatial genomics.

We aim to collect original high-quality research, reviews, and short communications involving studies of epidemiology, genomics, functional genomics, and interactions of zoonotic parasitic diseases that infect humans, animals, and marine organisms.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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