

Special Issue

Advances in Fungal Pathogen Genetics

Message from the Guest Editors

This Special Issue, “Advances in Fungal Pathogen Genetics”, aims to highlight cutting-edge omics research on fungal pathogenicity, with particular emphasis on host infection, environmental stress response, and developmental processes. Fungal pathogens pose major threats to agriculture, ecosystems, and human health, and understanding their adaptive mechanisms is essential for revealing how they colonize hosts, tolerate stress, and evolve under selective pressures. We invite original research articles and reviews that apply transcriptomics, genomics, epigenomics, and integrative multi-omics strategies to uncover virulence determinants, infection-associated signaling pathways, host–pathogen interactions, genetic variation, population structure, and mechanisms of evolutionary adaptation. Contributions exploring the molecular foundations of pathogenic development, niche specialization, and epigenetic regulation are especially encouraged. This Special Issue will serve as a platform for interdisciplinary exchange and a comprehensive resource for advancing fungal pathogen genetics.

Guest Editors

Dr. Shuaishuai Huang

Key Laboratory of Biodiversity and Environment on the Qinghai-Tibetan Plateau, School of Ecology and Environment, Ministry of Education, Tibet University, Yoni Wetland Ecosystem Positioning Observation and Research Station, Lhasa 850000, China

Prof. Dr. Víctor J. Cid

Departamento de Microbiología y Parasitología, Facultad de Farmacia, Universidad Complutense de Madrid, Plaza Ramon y Cajal s/n., 28040 Madrid, Spain

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Experimental Cancer Therapeutics, The University of Alabama at
Birmingham, 1825 University Blvd., SHEL 814, Birmingham, AL 35294-
2182, USA

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