

Special Issue

Pathogenesis of Wheat Pathogens, Pathogen-Wheat Interaction, and Molecular Design and Breeding of Disease Resistance Wheat

Message from the Guest Editors

Wheat (*Triticum aestivum* L.) is one of the most important crops in the world. It provides about 20% of the calories consumed by humans and offers more protein than any other food. However, wheat rusts, Fusarium head blight, Fusarium crown rot, powdery mildew and other wheat diseases largely compromise wheat production. A full understanding of the pathogenesis of wheat pathogens and pathogen-wheat interactions will facilitate the design and breeding of disease-resistant wheat. This Special Issue aims to present recent research and advances in the pathogenesis of wheat pathogens, pathogen-wheat interactions, and the molecular design and breeding of disease-resistant wheat. Sub-topics may include (but are not limited to) the molecular identification of wheat pathogens, histological and cytological investigations of the infection and colonization of wheat pathogens, pathogen pathogenesis, wheat resistance/susceptibility genes and their action mechanisms, molecular design and breeding of disease-resistant wheat. Moreover, the Special Issue will serve as a forum to explore the application of new resistance or susceptibility genes in wheat breeding.

Guest Editors

Dr. Ming Xu

State Key Laboratory of Crop Stress Biology for Arid Areas, College of Plant Protection, Northwest A&F University, Yangling 712100, China

Prof. Dr. Ning Wang

State Key Laboratory of Crop Stress Biology for Arid Areas, College of Plant Protection, Northwest A&F University, Yangling 712100, China

Deadline for manuscript submissions

closed (25 September 2024)

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

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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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