

Special Issue

Cereal Disease Resistance Genes and Fungal Effectors

Message from the Guest Editors

Rice, corn, wheat, barley, oats, rye, millet, triticale, and others are major sources of protein and calories in human and animal diets. However, fungal diseases threaten the production of cereal crops, resulting in reduced yields and quality. Plant pathogenic fungi are constantly changing and adapting to our agricultural practices, creating a moving target for disease management strategies. These challenges are exacerbated by intensified agricultural practices and changes in climate. The surveillance of pathogen populations and genes involved in toxin production and disease can guide disease management and breeding decisions. Breeders stay ahead of emerging fungal species and races that threaten cereal production by identifying new disease-resistance genes and incorporating them into elite cultivars. We welcome novel research, reviews and opinion pieces covering all related topics including breeding, resistance genes, genetic mapping, phenotyping, plant pathology, mycology, effectors, virulence genes, avirulence genes, population biology, management solutions, modelling, case studies from the field, and policy positions.

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