

Special Issue

Genetic Research, Epidemiological Factors, Surveillance and Management of Crop Diseases

Message from the Guest Editors

Plants are affected by diseases since time immemorial and diseases such as rust, mildew, and blight caused famine and affected the economy of several nations. Moreover, the threat of plant diseases is increased by climate fluctuations. Therefore, protecting the crops from various pathogens by different management strategies which include genetic engineering, breeding for disease-resistant varieties, limiting the epidemiological factors, prevention by exclusion, eradication and quarantine approach, mitigation by chemical and biological approaches, etc. are highly warranted to ensure the livelihood of the farming community and also to enhance the economy of different nations. Changing crop cultivation from field to controlled environments also brings new disease challenges. **Keywords:**

- plant diseases
- resistance
- susceptibility
- genetics of resistance
- disease epidemiology
- surveillance
- artificial intelligence
- biocontrol
- disease management, induced resistance
- molecular diagnostics
- field diagnostic kits

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