





an Open Access Journal by MDPI

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

Guest Editors:

#### Dr. Rasappa Viswanathan

ICAR-Sugarcane Breeding Institute, Coimbatore 641007, India

#### Dr. Raman Thangavelu

ICAR—National Research Center for Banana, Plant Pathology Division, Tiruchirappalli 620102, Tamil Nadu, India

Deadline for manuscript submissions:

closed (10 March 2023)

## **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



**Special**sue







an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

## Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. Agriculture is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

#### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

### **Contact Us**