

Special Issue

Diseases of Sugarcane: From Pathology to Integrated Management

Message from the Guest Editors

Sugarcane is an important cash crop in most of the tropical and sub-tropical regions worldwide. Sugarcane diseases can cause significant loss of productivity in terms of sugar and biomass. Some diseases are confined to parts of the world, and some are endemic worldwide. A range of methods have been adopted to manage sugarcane diseases, such as the application of fungicides, the hot-water treatment of seed canes to eliminate systemic infection, roughing and farm sanitation to reduce the transmission and spread of diseases, and the planting of disease-resistant varieties where possible. In recent years, research on sugarcane diseases has contributed significantly in (i) modern diagnostics using cutting-edge technologies, such as biosensors, machine learning and artificial intelligence, LAMP etc.; (ii) marker-assisted selection for disease resistance; (iii) new bioactive chemistry in disease management; and (iv) the improvement of soil health in order to mitigate soilborne pests and diseases. In this Special Issue, we invite you to submit your manuscripts on the biology, epidemiology, diagnosis and management of sugarcane diseases using modern, futuristic technologies.

Guest Editors

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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