Special Issue

Cultivar Development and Management Strategies for Sugarcane

Message from the Guest Editors

Sugarcane (a complex hybrid of *Saccharum* spp.) is a major sugar crop in the world and is responsible for approximately 70% of the world's total sugar supply in the form of sucrose. Sugarcane is mainly cultivated in tropical and subtropical regions. There are several biotic and abiotic stresses that undermine the production potential of sugarcane cultivars. Therefore, continuous development of new and improved cultivars is the key for profitable and sustainable sugarcane production. There are many sugarcane cultivar development programs around the world where scientists conduct research on the science (genetics, molecular biology, agronomy, plant pathology, entomology, etc.) behind the development of high-yielding and insect pest and disease-resistant cultivars. Improved cultivars alone do not solely achieve the goals of profitable and sustainable sugarcane production; research is also conducted to evaluate new agronomic practices such as row spacing, tillage, irrigation, fertilization, planting and harvesting methods, etc. to develop best management practices. Publication of these research results is important for scientific advancement and improved sugarcane production.

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