

Special Issue

Advancing Cultivation and Utilization of Tropical Botanical Resources

Message from the Guest Editors

The Special Issue aims to showcase innovations in crop physiology, breeding, biotechnology, digital agriculture, soil health, water management and sustainability as they relate to tropical botanical resources. The scope includes the conservation and use of genetic resources, precision phenotyping, machine-learning applications, regenerative farming and climate-smart agronomic practices. Emphasis is placed on detailed methodologies and practical applications that enhance productivity, resilience and ecosystem services. Emerging research integrates biotechnology for crop improvement, precision agriculture tools, digital monitoring systems and sustainable soil and water management strategies. The Special Issue will focus on advances in genetic resource conservation, climate-adaptive breeding and data-driven crop management that are transforming tropical agronomy toward more resilient, resource-efficient and environmentally sustainable production systems. Furthermore, manuscripts regarding research proposals and research ideas will be particularly welcomed.

Guest Editors

Dr. Marten Sørensen

Dr. Alfredo Grau

Dr. Marcos Vinicius Bohrer Monteiro Siqueira

Deadline for manuscript submissions

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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