

Special Issue

Plant–Soil Interactions in Wetlands and Flooded Environments

Message from the Guest Editors

This Special Issue aims to gather together the latest research updates on the interactions between plants and soil in a broad range of wetlands and flooded environments in an effort to address and further improve our knowledge of this interdisciplinary topic. Plant–soil interactions are crucial to consider for the appropriate management of lands subject to flooding, with the ultimate goal of protecting cultivated areas and promoting effective actions of conservation and restoration of wetlands. Expected changes in flooding regimes will impact on soils, altering nutrient cycling and soil processes (e.g., organic matter mineralisation). The extended lack of oxygen in soils and the consequent development of harmful phytotoxins (sulfides) influence plant growth and metabolism (fermentative metabolism). Plant communities shift in species composition and community diversity due to plant–plant interactions (competition). Plant–soil interactions in flooded environments are unique. Some acclimated plants show specific traits that can considerably modify the characteristics of the rhizosphere, which in turn can relieve the stress of flooding in plants.

Guest Editors

Dr. Elisa Pellegrini

Freshwater Biological Laboratory, Department of Biology,
Universitetsparken 4, 2100 København Ø, Denmark

Dr. Francesco Boscutti

Department of Agricultural, Food, Environmental and Animal Sciences,
University of Udine, Udine, Italy

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

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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