

Special Issue

Plant Genes and Salt Tolerance

Message from the Guest Editors

Soil salinity is a serious worldwide problem that significantly affects crop production. The salinity problem can be solved using different agronomic practices; however, the use of salt-tolerant plants is the most efficient and cost-effective method. Therefore, the availability of salt-tolerant plant varieties is vital to relieve the agriculture sector and to augment the nutrition needed by the increasing world population. In addition, recent studies have shown that the activity of some microbes significantly impacts various physiological processes in the host plant, including tolerance to salinity. The soil microbial–plant relationship may allow the discovery of other unknown mechanisms by which plants can tolerate salinity. However, intensive research is needed to clarify this relationship and determine the major players and their roles in the salinity tolerance mechanism, such as the role of the siderophore-producing bacteria. This Special Issue invites scientists to submit original research and review manuscripts focused on deciphering plant salt tolerance mechanisms using genetic and epigenetics mapping, OMICS, and gene editing technologies.

Guest Editors

Prof. Dr. Mahmoud W. Yaish

Department of Biology, College of Science, Sultan Qaboos University, Muscat 123, Oman

Prof. Dr. Sergey Shabala

Tasmanian Institute of Agriculture, College of Science and Engineering, University of Tasmania, Hobart 7001, Australia

Deadline for manuscript submissions

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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