Special Issue

The Role of Protein Quality Control in Plant Abiotic Stress Tolerance

Message from the Guest Editors

Plants are constantly challenged with diverse environmental stresses that adversely affect growth and development. Mechanisms that effectively circumvent the imbalance in proteostasis are therefore crucial for plant survival under stress conditions. Much attention in the field of plant abiotic stress tolerance has focused on understanding molecular mechanisms underlying intracellular signaling, transcriptional regulation, and epigenetic reprogramming, but recent discoveries have revealed the importance of protein quality control (PQC) for stress responses. This Special Issue aims to establish a wide collection of articles (research articles, reviews, opinions, methodologies, hypotheses, and modelling approaches) that emphasize identifying and unraveling the mechanisms of proteostasis involved in plant responses to various abiotic stress challenges. We would be delighted to receive contributions that decipher the process by analysis and integration of different -omics layers and the functional characterization of components involved in plant stress responses regulated by PQC. Additionally, articles addressing the proteolytic mechanisms in crops are highly welcome for this Issue.

Guest Editors

Dr. Venkatesh Thirumalaikumar
Boyce Thompson Institute, Cornell University, Ithaca, NY 14853, USA

Prof. Dr. Salma Balazadeh
Institute of Biology, Leiden University, Sylviusweg 72, 2333 BE Leiden, The Netherlands

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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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