

Special Issue

Plant Cell Walls: Frontlines for Facing and Coping with Environment Challenges

Message from the Guest Editors

Dear colleagues, Plant cell walls are fascinating and complex structures involved in a plethora of functions in plants. Cell walls act as a physical barrier against pathogen invasion, and genetically or chemically induced cell wall changes affect a plant's ability to respond to external threats. Cell wall alteration and the subsequent signaling responses seem to happen not only in response to pathogens, but also in response to abiotic stressors such as salinity, heat, drought etc. Cell walls are also a reservoir of potential fragments released during active cell wall degradation which have been described as important for the activation of plant immune responses likely limiting pathogen attacks. With the upcoming Special Issue, we aim to gather information on the effect of biotic and abiotic stresses on cell wall alterations, likely connecting them to cellular adaptation and intracellular signaling. Collecting this evidence will be of particular importance to enhance our current knowledge on crucial mechanisms in plants which might lead to a wide spectrum of alternatives to counteract the possible environmental problems of the near future.

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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.

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