

Special Issue

Plant Endomembranes Organization and Trafficking

Message from the Guest Editors

Plant endomembranes organization and trafficking are vital and at the basis of many aspects of plant cell biology. It is the key to maintaining cell homeostasis, the storage and degradation of proteins in vacuoles, the secretion to plasma membrane and deposition of cell wall components. Several non-proteic macromolecules synthesis and quality control mechanisms (e.g., the ER glycoprotein folding quality control (ERQC) machinery or the unfolded protein response (UPR)) take place in endomembranes' compartments and influence traffic. As a consequence, endomembrane trafficking is essential for plant growth, adaptation, and response to biotic and abiotic stresses. Specific membrane fusion mechanisms are necessary. Rabs, SNAREs, and tethering factors have emerged as keys of this traffic specificity, but many more transmembrane proteins appear determinant to define compartments. To translate the advanced knowledge acquired in specific model systems to the many aspects of plant cell physiology will open new opportunities to improve agricultural plant productivity and adaptation to the new threat of climate change.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2020)



Plants

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Impact Factor 4.1
CiteScore 7.6
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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, and 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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