Special Issue

Regulation of Membrane Traffic in Plants

Message from the Guest Editors

Cellular membrane trafficking machinery is integral for packaging, sorting, secreting, internalising and recycling proteins and other molecules across a highly dynamic set of membrane compartments. Membrane traffic in eukaryotes is largely vesicle mediated. In plants, vesicle traffic co-ordinates with osmotic ion transport for plant cell expansion, growth and morphogenesis. Vesicle trafficking in plants achieves spatio-temporal regulation of protein localisation and activity, maintaining dynamic membrane composition and cell surface area, accommodating changes in cell shape and cell size and delivering cell wall components and signalling molecules to the apoplast. At the plasma membrane, cargoes for vesicle traffic include ion channels, receptors and transporters and contribute to cell growth and development and to a wide range of physiological processes that enable plants to survive under fluctuating environmental conditions.

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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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