



Plant Endomembranes Organization and Trafficking

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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.





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Message from the Editor-in-Chief

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