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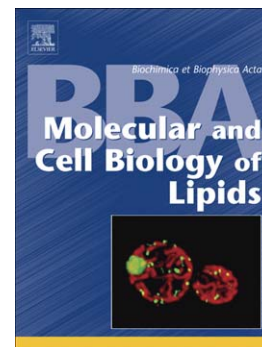
Plant phosphoinositide signaling - dynamics on demand

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**Plant phosphoinositide signaling - dynamics on demand**

Ingo Heilmann

Invited review for the special issue on "Plant Lipid Biology"

(BBA - Molecular and Cell Biology of Lipids)

**Abstract**

Eukaryotic membranes contain small amounts of lipids with regulatory roles. An important class of such regulatory lipids are phosphoinositides (PIs). Within membranes, PIs serve as recruitment signals, as regulators of membrane protein function or as precursors for second messenger production, thereby influencing a multitude of cellular processes with key importance for plant function and development. Plant PIs occur locally and transiently within membrane microdomains, and their abundance is strictly controlled. To understand the functions of the plant PI-network it is important to understand not only downstream PI-effects, but also to identify and characterize factors contributing to dynamic PI formation.

**Key words**

Plant phosphoinositides; PI-kinases; Dynamics; Membrane association; Posttranslational modification

**Conflict of interest**

The author does not indicate a conflict of interest.

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