

Special Issue

Perception, Transduction and Crosstalk of Auxin and Cytokinin Signals

Message from the Guest Editor

Auxins and cytokinins are considered the most important plant hormones, responsible for fundamental traits of the plant organism. These hormones determine the uniqueness of the plant hormonal system: the main sites of their synthesis are localized at opposite plant body poles, auxins at the top and cytokinins at the bottom. From their synthesis sites, these hormones move along the main plant axis in opposite directions. This pivotal auxin–cytokinin countercurrent creates hormonal gradients that affect cell behavior. Both hormones act synergistically in stimulating cell division but antagonistically in shoot or root branching. Other important plant traits including resistance to biotic and abiotic stresses are also auxin-/cytokinin-dependent.

This Issue is aimed at unifying researchers studying various aspects of the molecular basis of auxin and/or cytokinin perception and signal transduction.

Guest Editor

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