

Special Issue

Regulation of Transcription Factor–Hormone Networks in Plants

Message from the Guest Editors

The generation of complex plant architectures depends on the coordinated balance between the proliferative activity of plant meristems and the differentiation of newly formed cells and tissues into organs with definite sizes, shapes and spatial arrangements. This balance is genetically controlled by molecular regulatory networks involving key transcription factors and phytohormones which, through a complex web of interactions, drive plant developmental patterning. Understanding the molecular mechanisms behind these networks is relevant to fundamental and applied research alike: agronomically relevant traits such as plant biomass, crop yield and agricultural land use all depend on the genetic mechanisms regulating plant architectures. This Special Issue will focus on the TF–hormone molecular regulatory networks and their role in the genetic control of plant architecture, as well as explore recent advances in the regulation of meristems functions and organ formation. We will welcome original research contributions and timely review articles on model and crop species.

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