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Plant Meristems:The Cradle of Life

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Message from the Guest Editors

Characteristics of plant development, such as their capacity to generate new organs post-embryonically, their high regenerative ability, and their large variability in body architecture, are achieved through the activity of plant meristems. According to their localization, meristems are classified into apical (SAM in the shoots and RAM in the roots), lateral (cambium, pericycle, cork cambium), intercalary (meristematic tissue of internodes), and marginal (meristems of the edges of leaf blades). The structural organization differs in different types of meristems. Meristem activity and maintenance are regulated by a set of genes, which demonstrate different expression patterns in different zones of meristems.

This Special Issue of *Plants* aims to highlight different aspects of meristem organization and activity and regulatory mechanisms underlying their development and maintenance in plants, including phytohormones, transcription factors, and components of signaling pathways regulating cell proliferation and differentiation within plant meristems.

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Message from the Editor-in-Chief

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