

## Special Issue

# Beyond the Gene: Molecular Circuits Shaping Plant Cells and Tissues

### Message from the Guest Editor

Plants construct intrinsic arrangements and structures of cells and tissues that are essential for diverse biological functions, including adaptation to external environments, defense against pathogens, nutrient absorption, transport, gas exchange, and photosynthesis. The expression of cell functions often depends on developmental programs and spatial coordination among neighboring cells or the environment, resulting in the precise localization of functional molecules such as transporters and enzymes at the subcellular level. With this Special Issue, we aim to advance our understanding of the molecular underpinnings governing plant cell function, tissue organization, and developmental regulation. We welcome submissions of original research employing cell biology, molecular genetics, and/or omics approaches, providing novel insights into the molecular mechanisms supporting plant cell functions. We also welcome articles in the form of reviews and technical advances related to plant cell function and regulation.

### Guest Editor

Dr. Tarek Alshaal

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### Deadline for manuscript submissions

closed (20 February 2026)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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### Message from the Editor-in-Chief

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