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Peptide Hormones: Roles in Plant Development, Nutrient Responses and Plant–Microbe Interactions

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Message from the Guest Editors

Peptide hormones represent a numerous group of plant regulators. They have been shown to regulate different aspects of plant development including meristem maintenance, tissue differentiation, lateral organ formation, and plant–microbe interactions and systemic response to nutrient availability. Peptide hormones are important systemic coordinators of plant growth in response to biotic and abiotic cues since they are capable of long-distance transport through vascular tissues. For instance, CLE and CEP peptides were shown to move through the xylem from the root to the shoot, therefore transmitting information about nutrient availability, water deficiency, and root interaction with soil microorganisms. Bioinformatics and in silico analysis are tools of interest to discover these new peptide families, and the corresponding receptors.

The description and methodology to discover peptide families, and their receptors, the description of their action on plant cells, and the signaling pathways triggered by them are in the scope of this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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