

# Special Issue

## Peptides in Plants

### Message from the Guest Editors

For many years, peptides in plants were considered only as antimicrobial components of plant defense mechanisms. Antimicrobial peptides kill pathogens by interacting with phospholipids and permeabilizing membranes. Another group of antimicrobial peptides is able to penetrate through membranes into cells and deliver various molecules. This ability of this class of peptides has recently received much attention from researchers. Such antimicrobial peptides are actively used not only in the fight against pathogenic microorganisms, but also in the treatment of genetic diseases. The discovery that many different (secreted) peptides are involved in signaling has stimulated intense research. Peptide hormones play a key role in many physiological processes, coordinating developmental and environmental signals between different cells. Hormonal peptides play a critical role in plant growth and development, including defense mechanisms in response to pest damage, the control of cell division and expansion, as well as pollen incompatibility. They can trigger or inhibit a variety of genetic processes and biochemical reactions in the cell.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 June 2023)



## Plants

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### Editor-in-Chief

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