# **Special Issue**

## Evolution of Environmental Adaptation in Plants

### Message from the Guest Editor

Plants live in diverse environments that are often unsuitable or stressful for their growth. Abiotic stresses, such as extreme climatic and adverse soil conditions, pose severe constraints on crop growth and yield formation. As sessile organisms, plants are incapable of moving freely when exposed to various abiotic stresses. Hence, they deal with adverse environments via a series of physiological, cellular, and molecular responses. A vast number of studies have been carried out to investigate the stress tolerance/resistance mechanisms in a single or a small number of plant species. However, questions arise regarding when and how plants evolve adaptive mechanisms in response to environmental stresses. This Special Issue entitled "Evolution of Environmental Adaptation in Plants" will cover but not be limited to the following topics: (1) Identification of genes, proteins, and metabolites participating in environmental adaptation; (2) Unraveling the evolutionary mechanisms of stress tolerance/resistance in land plants and algae; (3) Characterization of elite genes resources in wild relatives, and utilization of elite genes in crop improvement.

### Guest Editor

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### Deadline for manuscript submissions

closed (30 June 2022)



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### Editor-in-Chief

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