

## Special Issue

# Advances in Nitrogen Nutrition in Plants

### Message from the Guest Editor

Nitrogen is an essential major element for all living things because N is a constituent element in amino acids, proteins, nucleic acids, and other important biomolecules. Animals, including humans, cannot assimilate the inorganic N compounds, so they depend on the organic nitrogen compounds originally assimilated by plants. Most terrestrial plants absorb nitrate or ammonium in soils, but the availability of N often restricts plant growth and crop yield. Plants cannot fix atmospheric N<sub>2</sub> by themselves, but some plants can use N<sub>2</sub> fixed by nitrogen-fixing symbiotic bacteria. An understanding of the processes of N absorption, transport, and assimilation in plants is fundamental to improving plant characteristics and agricultural practices to increase crop yield and quality. Much remains to be discovered in the field of N nutrition in plants, such as the sensing of N, regulation of N uptake, transport, and assimilation, etc. We will highlight the recent advances in N nutrition in plants, including N absorption, assimilation, transport, and protein synthesis in sink organs.

### Guest Editor

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### Deadline for manuscript submissions

20 December 2025



## Plants

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### Message from the Editor-in-Chief

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