

Special Issue

Nitrogen Metabolism and Degradation

Message from the Guest Editors

Nitrogen is an essential element required for cellular growth. It serves as a building block in primary metabolism for the biosynthesis of macromolecules and provides precursors in secondary metabolism for secondary metabolites. Many organisms have developed the ability to use various nitrogen-containing compounds, including molecules such as ammonium, nitrate, amino acids, amino sugars, urea, monoamines, polyamines, and others. These compounds are utilized via catabolic routes to support cellular homeostasis. For survival in a competitive and stressful environment with nutrient limitations, different organisms have developed a complex metabolism and regulatory machinery that controls the amount of nitrogen in their cells at transcriptional and post-transcriptional levels. Such conditions can occur in diverse habitats, such as soil, plant tissues, and human cells, which are associated with nitrogen-use efficiency.

This Special Issue will discuss new insights into the molecular mechanisms regulating nitrogen metabolism and degradation, and the functions of nitrogen-containing compounds in cellular metabolism.

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About the Journal

Message from the Editor-in-Chief

Nitrogen, the element that is intimately associated with essentially all processes on Earth, is the broad focus of a new online, open access journal. The intention of this publication is to offer a venue for research papers, reviews, short notes, and communications that have as a nexus this critical element.

Editor-in-Chief

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