Special Issue

Nitrogen Signaling, Transport, and Function in Plants

Message from the Guest Editor

Plants utilize nitrate, ammonium, and organic nitrogen compounds in the soil as nitrogen sources. Recent studies have identified the molecular components that are crucial for nitrogen-dependent signaling, including sensor proteins, transcription factors, kinases, phytohormones, and peptide signals. These components mediate the signaling both locally and systemically and cross-talk with other signaling pathways that respond to abiotic and biotic stimuli. In this way, plants elaborately adjust their growth and nitrogen uptake, assimilation, and distribution, and stress responses to existing environments. This Special Issue will focus on the recent progress in the molecular and physiological mechanisms of nitrogen signaling, transport, and function in model and non-model plants. Experimental approaches, in addition to computational approaches, such as systems biology, modeling, and simulative approaches, are welcome for submission. Furthermore, studies on the cross-talk between nitrogen responses and other environmental responses are acceptable.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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