

Special Issue

Relationship between Plant Roots and Nitrogen

Message from the Guest Editor

Nitrogen is an essential macronutrient. However, due to the high solubility of nitrates and ammonium salts and the vital activity of soil microbes, plants often lack nitrogen. To maintain nitrogen homeostasis and ensure successful reproduction, plants rely on a wide range of reactions that modulate ion uptake, distribution, and metabolism. In this Special Issue, we plan to publish review or research articles containing new information about nitrate or ammonium signals and the absorption, distribution, and metabolism of nitrogen in plants, as well as the influences of abiotic and biotic factors on these processes. Of special interest are publications concerning the relationship between the growth and development of roots with respect to the level of nitrogen nutrition and the hormonal regulation of these processes. Research papers on methods for increasing the yields of cultivated plants in connection with nitrogen nutrition are especially welcome. Studies on other themes related to the topic of the Special Issue will also be considered.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2024)



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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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