

Special Issue

Transport of Essential Mineral Macronutrients in Plants

Message from the Guest Editor

Agriculture is currently facing the challenge of producing enough food for a constant growing world population under harsher environmental conditions. In particular, climate change will reduce the productivity of agriculture approximately in two thirds of the world's agricultural land in the next 30 years. Correct plant nutrition has been widely shown to have a protective effect against environmental stresses, and additional nutrient inputs have notably increased crop yield in the last decades. However, excessive fertilizer inputs have side-effects on the surrounding ecosystems. It is of crucial importance to understand how plants take up and mobilize nutrients within the plant to develop strategies aiming at increasing nutrient use efficiency and achieving stress tolerance of crops. The present Special Issue focuses on the role and regulation of different transport systems involved in potassium, nitrogen, phosphorus, calcium, magnesium, and sulfur transport and mobilization in plants. A special interest will be paid on research conducted on crops, and the study of the contribution of the target transport systems to plant yield will be encouraged.

Guest Editor

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Deadline for manuscript submissions

closed (1 December 2020)



Agronomy

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Impact Factor 3.4
CiteScore 7.6



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