

Special Issue

Plant Nutrition—Molecular Biology and Genetics

Message from the Guest Editors

The study of plant nutrition and its genetic regulation is essential for addressing the global challenges of sustainable agriculture and food security. Plants rely on complex physiological, biochemical, and molecular mechanisms to absorb and allocate vital nutrients such as nitrogen, phosphorus, and potassium, crucial for growth and development. Understanding these processes at the molecular and genetic levels can lead to strategies that optimize nutrient use efficiency, improve crop yields, and reduce environmental impact. This Special Issue will present pioneering research on plant nutrition, root biology, and their genetic regulation, offering valuable insights to advance sustainable agriculture and food security. We welcome submissions focusing on innovative research in plant molecular biology and genetics, particularly those related to nutrient management, crop improvement, and the development of efficient agricultural technologies.

Guest Editors

Prof. Dr. Guohua Mi

State Key Laboratory of Nutrient Use and Management, College of Resources and Environmental Science, China Agricultural University, Beijing 100193, China

Dr. Peng Wang

Key Laboratory of Tobacco Biology and Processing, Ministry of Agriculture and Rural Affairs, Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao 266101, China

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Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biology@mdpi.com

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

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