

Physiologia Plantarum

Aims and Scope

The aim of *Physiologia Plantarum* is to publish original research that advances our understanding of the primary physiological and molecular mechanisms governing plant development, growth and productivity. The journal therefore welcomes papers on aspects of experimental plant biology ranging from molecular and cell biology, biochemistry and biophysics, to ecophysiology, thereby maintaining contact among the different organizational levels of plant biology.

Physiologia Plantarum also publishes Minireviews and Technical focus papers, with the aim of providing a forum for the exchange of information on recent breakthroughs and technical advances.

Regular manuscripts

Regular papers should present original hypothesis-driven research in one of the five subject areas covered by the journal (Biochemistry and metabolism; Ecophysiology, stress and adaptation; Uptake, transport and assimilation; Development, growth and differentiation; Photobiology and photosynthesis). The experiments described should address questions pertinent to the research topic and the outcomes should advance our understanding of the processes being studied, not simply repeat known results in a different species.

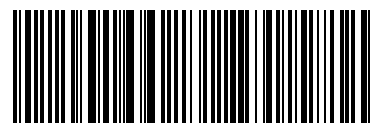
Technical focus papers

The Technical focus section is a forum for critical evaluations and syntheses of key technological approaches in plant physiology, including evaluations of limitations or pitfalls of techniques. The editors invite contributions on topics of interest from recognized experts, but also invite proposals from authors for technical focus articles. The format is flexible to accommodate varying content.

Minireviews

Minireviews, which are subject to review, should cover the background of topical research problems, emphasizing the state of the art and serving as a focal point for further research. They must be written concisely, with no more than 50 references and a maximum of 8 printed pages (one printed page of full text is equivalent to 6500 characters, including spaces). Minireviews will be considered in all areas of experimental plant science and it is recommended that the Editor-in-Chief be contacted in advance to confirm the suitability of the chosen topic.

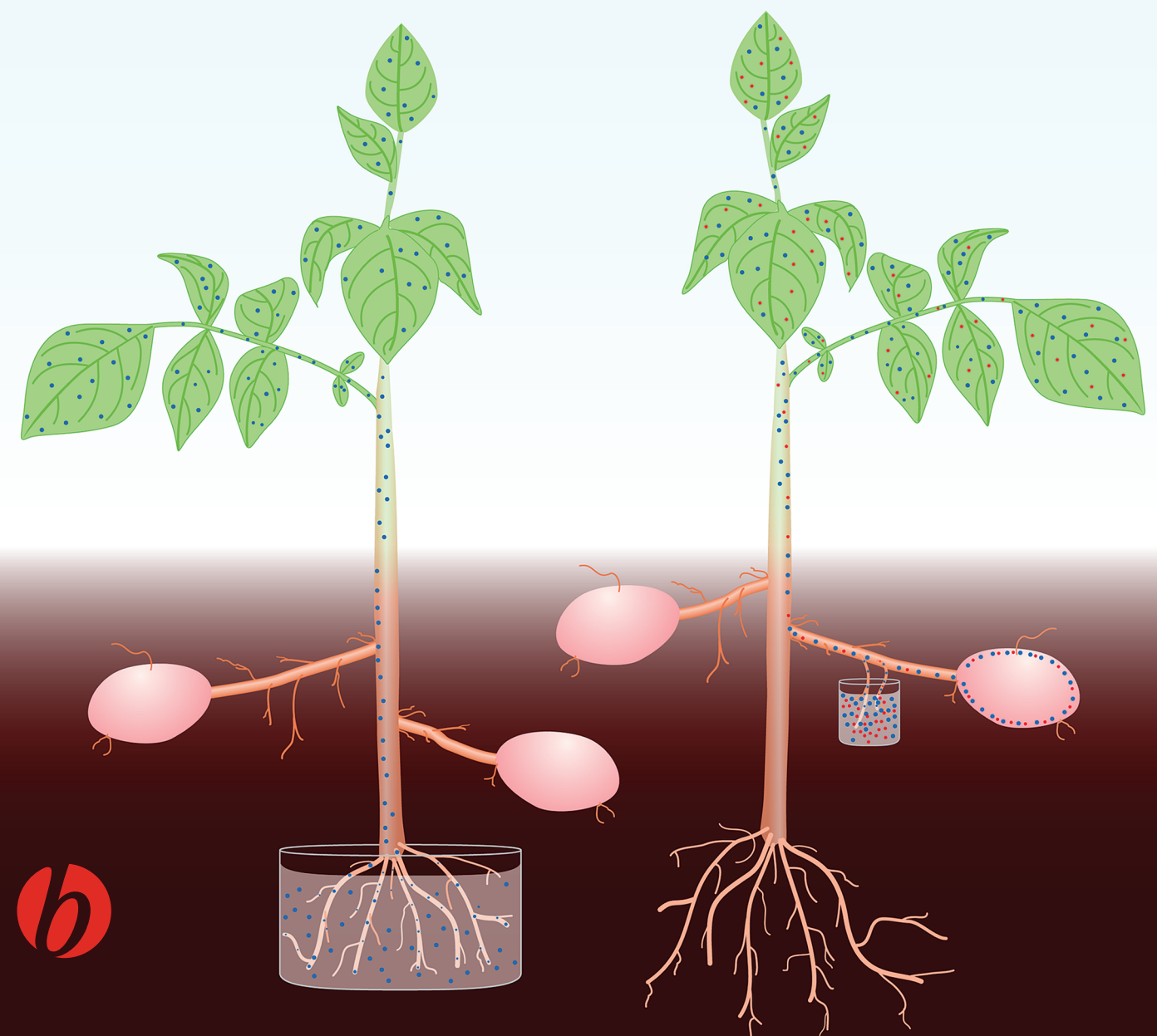
Physiologia Plantarum also welcomes shorter reviews/opinion papers on a topical issue that offers authors the freedom to propose new working models or hypotheses in a format that does not necessarily fit the style of classical review paper.



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Physiologia Plantarum

An International Journal for Plant Biology



Physiologia Plantarum

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Cover illustration: Busse and Palta (pp 313–323) investigated *in vivo* calcium transport to developing potato tubers by performing ⁴⁵Ca feeding experiments in the presence and absence of Safranin O dye and monitoring calcium accumulation within various potato plant organs. The cover shows the transport paths of ⁴⁵Ca (blue dots) and Safranin O (red dots) when fed to different portions of the potato plant root zone.

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