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Plant Physiology®
Focus Issue on Plant Roots

Deadline for Submission: January 1, 2014
To submit an article, please go to http://submit.plantphysiol.org

The root and its interactions with the soil environment are intimately intertwined. Nutrient and water uptake are fundamentally tied to the cellular and tissue architecture of the root; conversely, root development and ultimately architecture are subject to regulation by factors that include water and nutrient availability, presence of toxic compounds, microorganisms, and neighboring plants. Recent advances (including new molecular, genetic, biophysical, and imaging tools) now challenge our thinking about the root and its developmental plasticity in ways that could not have been predicted even a decade ago. This issue will address these topics. Primary research articles that speak to our understanding of roots, including but not limited to nutrient uptake processes, their relationship(s) to root structure and development, tissue differentiation and morphogenesis, and the rhizosphere are welcome.

Authors interested in contributing should indicate this in the cover letter when submitting papers online at http://submit.plantphysiol.org/. Please select “Plant Roots (May 2014)” from the Focus Issue list in the online submission system. Articles published in Plant Physiology on this topic within 2 years before and after the Focus Issue publication date will be collected in an online Focus Collection on Plant Roots.

Please contact Niko Geldner (niko.geldner@unil.ch) or David Salt (david.salt@abdn.ac.uk) for additional information.

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Plant Physiology®
Focus Issue on Weed Control

Deadline for Submission: March 3, 2014
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Weed control represents a core challenge to maintaining crop yield and quality, with herbicides remaining our greatest global agrochemical input into farming. Despite their importance, no new herbicide mode of action has been commercialized in over 20 years, with many existing products withdrawn due to changes in environmental regulations. In addition, our reliance on a relatively small number of modes of action for herbicides has resulted in resistance now being widespread in competing weeds. In this Focus Issue, in addition to reviewing the state of the art in herbicides as weed control agents, we are encouraging the plant science community to explore new technologies, such as the application of “omics” and chemical genetics, and new knowledge in intervening in plant processes using both small molecules and biological control approaches. We will also look afresh at the basic research now needed to promote further innovation in this important branch of translational plant science, which underpins sustainable intensification in crop production.

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Please contact Robert Edwards (robert.edwards@york.ac.uk) or Matthew Hannah (matthew.hannah@bayer.com) for additional information.
The American Society of Plant Biologists has published *The Arabidopsis Book* (TAB) as a free online compendium since 2002. ASPB is providing funds for the production of TAB as a public service.

Founded by Chris Somerville and Elliot Meyerowitz, TAB now has more than 100 articles online. The current editorial board is working hard to continue TAB’s ongoing expansion:

**Keiko Torii** *(editor-in-chief)*  
University of Washington

**Caren Chang**  
University of Maryland

**Luca Comai**  
University of California, Davis

**Georg Jander**  
Boyce Thompson Institute

**Dan Kliebenstein**  
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**Ryan Lister**  
University of Western Australia

**Rob McClung**  
Dartmouth College

**Harvey Millar**  
University of Western Australia

**Doris Wagner**  
University of Pennsylvania

The board is overseeing all new content development as well as updates to existing articles to keep TAB the most comprehensive and current work on Arabidopsis.

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**New Articles!**

**The Arabidopsis Book Posts New Content!**

**Translational Regulation of Cytoplasmic mRNAs**  
Bijoyita Roy and Albrecht G. von Arnim  
July 18, 2013. Edited by Caren Chang.

**The UVR8 UV-B Photoreceptor: Perception, Signaling, and Response**  
Kimberley Tilbrook, Adriana B. Aronga, Melanie Binkert, Marc Heijde, Ruohe Yin, and Roman Ulm  

**Leaf Development** *(update)*  
Hirokazu Tsukaya  
June 7, 2013. Edited by Keiko Torii.

**Stomatal Development in Arabidopsis** *(update)*  
Lynn Jo Pillitteri and Juan Dong  
June 6, 2013. Edited by Keiko Torii.

As part of continuing initiatives to improve the quality and visibility of *The Arabidopsis Book* and its content, PubMed is now indexing past and future articles.

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Photos courtesy of The Arabidopsis Information Resource and the RIKEN Plant Science Center.
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