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their importance, no new herbicide mode of action has been commercialized in over 20 years, with many existing products withdrawn due to changes in environmental regulations.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.

Authors interested in contributing should indicate this in the cover letter when submitting papers online at http://submit.plantphysiol.org. Please select “Weed Control (July 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 Weed Control.

Please contact Robert Edwards (robert.edwards@york.ac.uk) or Matthew Hannah (matthew.hannah@bayer.com) for additional information.
Teaching Tools in Plant Biology was created to address the stress and pressure of busy educators when they develop course material. Each Tool is developed to make the research as current as possible while giving educators the flexibility to make it work for their students—a kind of living text.”

Mary Williams
Features Editor, The Plant Cell

Teaching Tools in Plant Biology combines up-to-date peer-reviewed research-based content with flexible presentation components that can be used alone or integrated into your lesson plans so that you can confidently present these exciting topics in your classroom. Each tool includes a short essay introducing each topic, PowerPoint slides, and suggested readings.

Teaching Tools is available free with a subscription to The Plant Cell and also on a per-Tool basis for $50.

Teaching Tools in Plant Biology is an editorial innovation from The Plant Cell, one of the most trusted names in plant biology.

www.teachingtoolsinplantbiology.org

American Society of Plant Biologists
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**
University of California, Davis

**Rob Last**
Michigan State University

**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.

**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, Ruohu 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.

TAB is hosted in partnership with BioOne (www.bioone.org) in HTML and PDF formats.

Photos courtesy of The Arabidopsis Information Resource and the RIKEN Plant Science Center.
Wiley-Blackwell and ASPB have partnered since 2002 to bring you the groundbreaking *Biochemistry & Molecular Biology of Plants*, by Buchanan, Gruissem, and Jones.

Wiley-Blackwell is now pleased to announce a collaboration with ASPB to develop a *Plant Biology Book Series* covering all areas of interest to ASPB members, including cell and molecular biology, genomics, proteomics, biochemistry, and physiology at undergraduate and graduate level. We are looking for potential book authors and editors to contribute to the series and would like to hear from you if you have ideas for books and would like to discuss them further.

If you would like more information on how you could be part of this exciting series, please contact our Commissioning Editor, Rachel Wade by e-mail (rwade@wiley.com).

We look forward to hearing your ideas and working with you to create a valuable resource for students and lecturers in plant biology.

[www.wiley.com/go/ASPB](http://www.wiley.com/go/ASPB)
The 2012 edition of the Annual Update Collection compiles all the front-section Updates published in Plant Physiology in 2012, along with the prologue editorials written by the guest editors of that year’s Focus Issues.

Updates review recent progress in the thematic areas covered by the Focus Issues (and more) and are written to be accessible and interesting for people reading them as an introduction to a particular topic, preparing for a lecture, or making classroom assignments.

The 2012 Collection covers
  • Nuclear Architecture and Dynamics
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For more information, visit http://submit.plantphysiol.org or http://submit.plantcell.org.
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**Call for Papers**

*Plant Physiology*

**Focus Issue on Weed Control**

Deadline for Submission: March 3, 2014
To submit an article, please go to http://submit.plantphysiol.org

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.

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**Call for Papers**

*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.
Flooding Tolerance in Brassicaceae