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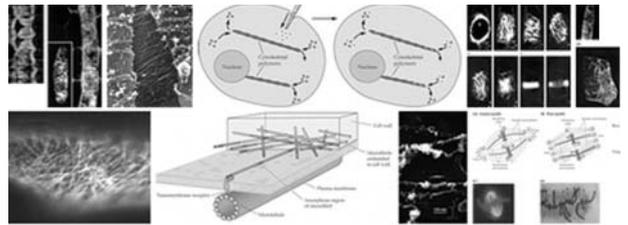
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The Department of Biochemistry, University of Missouri-Columbia, invites applications for a Research Scientist position to study pollination in the Solanaceae. Experience with triple-label immunolocalization in pollen tubes, confocal and electron microscopy, in vitro assays of pollen tube growth, and biochemical isolation and characterization of proteins affecting pollen tube growth is essential. Applicants must hold a PhD in biochemistry or a related field. Contact Bruce McClure, 240a Bond Life Sciences Center, 1201 E. Rollins St., Columbia, MO 65201-7310. Closing date July 26. Email applications not accepted. MU is an EEO/AA/ADA employer, and encourages applications from women and minorities.

Biochemistry & Molecular Biology of Plants Online Image Library!



ASPB announces the new Online Image Library – containing all images from the best-selling textbook/reference work *Biochemistry & Molecular Biology of Plants*, by Buchanan, Grisse, and Jones.

The new Online Image Library features images listed by chapter plus the capability to search by individual images. And images are easily imported into PowerPoint for use in presentations.

Access to the site is available for \$49.95. ASPB members receive a **20% DISCOUNT**, making the purchase price for members \$39.95.

To purchase the images from *Biochemistry & Molecular Biology of Plants* using our secure web site, go to <http://www.aspb.org/publications/biotext/imagelibrary/>. Log in as a member for your member discount. Contact info@aspb.org for more information.



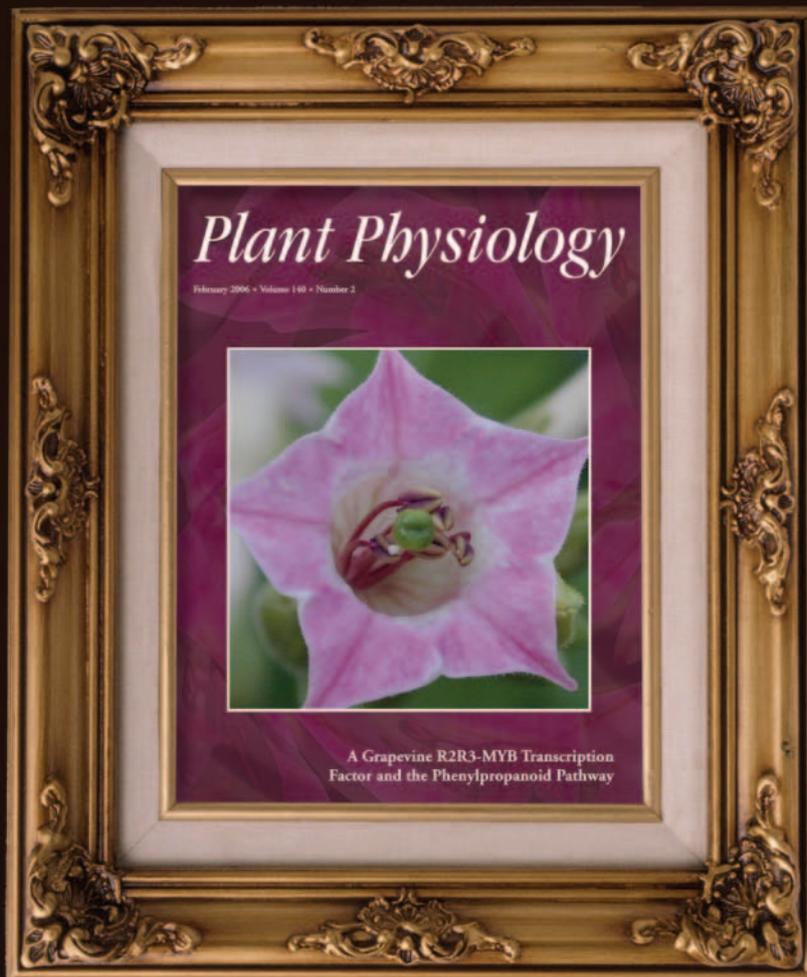
ASPB Open Access Experiment

The Open Access movement in scholarly publishing advocates that the results of research that was funded by taxpayer dollars should be freely available to all immediately upon publication. As such, the traditional “user-pays” (subscription access) model would eventually be eliminated in favor of an “author-pays” model, whereby publication charges are paid, for example, out of authors’ grants.

To gauge interest in an Open Access model of publishing in the plant science community, ASPB is conducting an 18-month Open Access experiment for research papers published in *Plant Physiology* and *The Plant Cell*. Beginning with the December 2005 issues, corresponding authors of articles accepted by the journals will be given the option to pay a surcharge to make their online article free upon publication. The surcharge, which will be in addition to the usual author charges, will be \$1,000 (discounted to \$500 if the author’s institution subscribes to the journal).

This experiment will help ASPB to evaluate the viability of an “author-pays” publishing model. Questions and comments can be sent to Nancy Winchester, Director of Publications (nancyw@aspb.org). For more information, please go to <http://www.aspb.org/openaccess>.

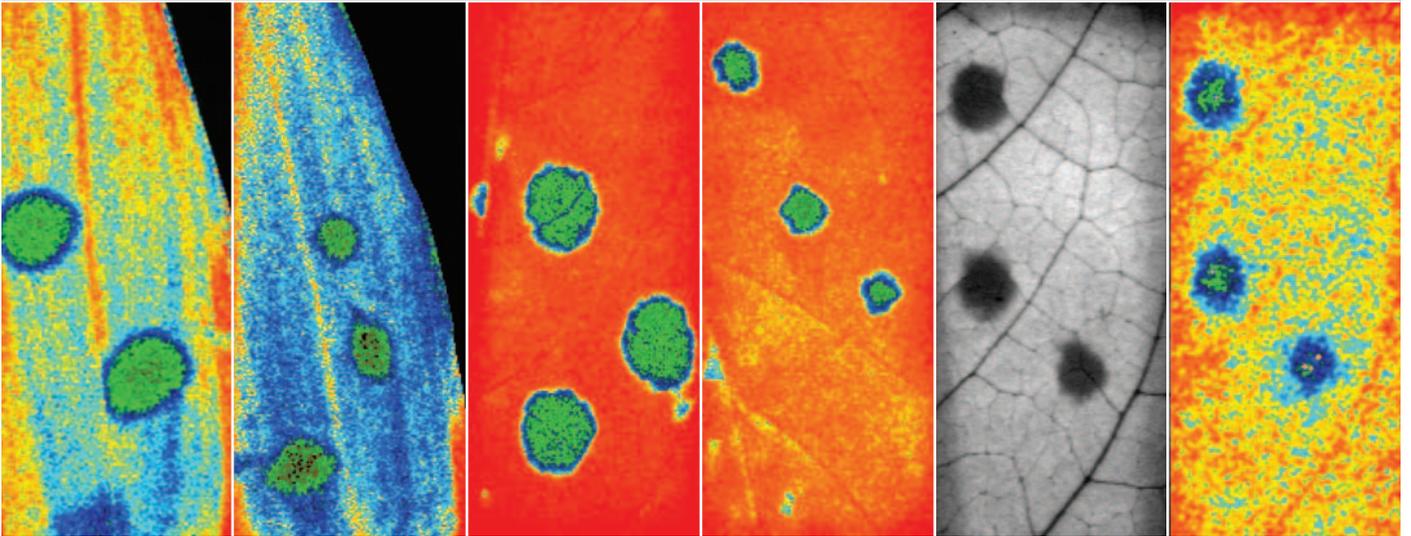
Cover Art Wanted!



Plant Physiology is always looking for cover submissions from authors of upcoming articles. If you have an outstanding color figure or cover design concept that would look great on a future cover of the Journal, please include it with your manuscript submission.

Call for Papers: Biology of Transpiration

A Special Issue of *Plant Physiology*



Deadline for Submissions: September 1, 2006

To submit an article, please go to <http://submit.plantphysiol.org>.

Submissions are now being considered for a special issue of *Plant Physiology* on the Biology of Transpiration to be published in January 2007. The issue will be edited by Susanne von Caemmerer and Neil Baker. Submissions covering all aspects of water transport, from gene expression to global modeling, are welcome, including

- root water uptake
- regulation of water flow by aquaporins
- long-distance transport and xylem hydraulics
- guard cell physiology and development
- mechanisms controlling transpiration from the leaf to the globe

Plant Physiology is proud to sponsor an upcoming meeting on the same topic. *The Biology of Transpiration: From Guard Cells to Globe* will be held October 10–14, 2006, at Snowbird Mountain Resort in Utah. For more information, go to <http://www.aspb.org/meetings/transpiration06/>.

This is an open call for papers. All papers will be subject to peer review, and author attendance at the *Plant Physiology*-sponsored meeting will not be a factor affecting acceptance for the special issue.

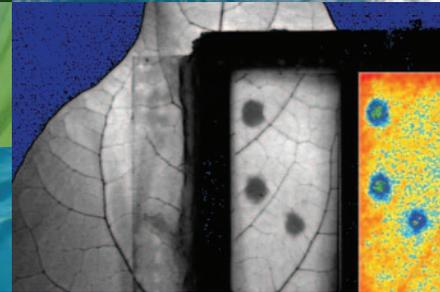
The Biology of Transpiration: From Guard Cells to Globe

Snowbird Mountain Resort, UT

October 10-14, 2006

Organizers: Sally Assmann, Steve Long, and Keith Mott

<http://www.aspb.org/meetings/transpiration06>



Plant Physiology Special Issue
Biology of Transpiration
January 2007
<http://www.aspb.org/BiologyofTranspiration>

There have been a number of successful meetings on stomata in past years, starting with a SEB symposium in Lancaster in 1979, followed by meetings in Hawaii (1983), a FESPP workshop in East Berlin (1989), a SEB sponsored symposium in Canterbury in 1997, and a meeting sponsored by *New Phytologist* in Birmingham in 2001. This meeting will continue and expand that tradition, using the topic of transpiration as a focal point. In the past five years, there have been rapid advances at several organizational levels in the understanding and measurement of the biology of transpiration. These areas have developed separately, yet each has major implications for the others. To catalyze needed interactions among scientists working in diverse areas, all aspects of water transport will be covered at levels spanning from gene expression to global modeling, including:

- root water uptake
- regulation of water flow by aquaporins
- long distance transport and xylem hydraulics
- guard cell physiology and development
- mechanisms controlling transpiration from the leaf to the globe.

A goal of this meeting is to bring together outstanding scientists from around the globe who might not otherwise meet. To provide the participants with an intimate retreat-like atmosphere for debate and interaction, the meeting will be limited to approximately 200 participants. The meeting will include invited talks, talks chosen from abstracts, and poster discussions; each day's program will cover topics at several organizational levels.

Confirmed Speakers and Tentative Titles

Dominique Bergmann (Stanford University, USA) A genomics approach to understanding guard cell development

Joseph Berry (Carnegie Institution, USA) The stable isotopic signature of stomata in the atmosphere

Michael Blatt (University of Glasgow, UK) Vesicle trafficking and ion-channel regulation in guard cells

Susanne von Caemmerer (ANU, Australia) Stomatal behavior in photosynthetic mutants

William Davies (Lancaster University, UK) Root signaling of water status

Graham Farquhar (ANU, Australia) Revisiting optimization theory and transpiration efficiency

Carl Bernacchi (ISWS/University of Illinois, USA) Stomata, evapotranspiration and atmospheric change

David Fowler (Centre for Ecology and Hydrology, UK) Rising tropospheric ozone: the role of stomata in mediating damage

Alistair Hetherington (Lancaster University, UK) Signaling networks in guard cell responses to ABA and CO₂

Rainer Hedrich (University of Würzburg Germany) Guard-cell electrophysiology in the intact leaf

N. Michele Holbrook (Harvard University, USA) The interplay between the xylem and transpiration

Hamlynn Jones (University of Dundee, UK) Remote sensing of stomatal behavior from leaf to landscape

Christophe Maurel (INRA/CNRS, France) Aquaporins and water transport through roots

Jennifer McElwain (The Field Museum, USA) Functional adaptation of transpiration to past climates and atmospheres

Russell Monson (University of Colorado, USA) Landscape-atmosphere exchanges: the role of stomata

Fred Sack (Ohio State University, USA) Division regulation in Arabidopsis stomatal development

Julian Schroeder (UCSD, USA) The genomics and cell biology of guard cells

Ken-ichiro Shimazaki (Kyushu University, Japan) Blue light regulation of stomatal function

John Sperry (University of Utah, USA) Coordination of stomatal and xylem function

F. Ian Woodward (Sheffield University, UK) Vegetation dynamics and the role of stomata

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