

An international journal devoted to basic research into how plants function, ranging from the molecular to the cellular to the whole plant levels, and including the interactions of plants with their biotic and abiotic environments.

Editor-in-Chief

Donald R. Ort
USDA/ARS University of Illinois, Urbana, IL, USA

Associate Editors

Bonnie Bartel Rice University, Houston, TX, USA
Dirk Inzé Ghent University, Ghent, Belgium
Alan Jones University of North Carolina, Chapel Hill, NC, USA
Maarten Koornneef Max Planck Institute, Cologne, Germany
Robert L. Last Michigan State University, East Lansing, MI, USA
Sheila McCormick USDA-ARS University of California, Berkeley, CA, USA
Thomas Mitchell-Olds Duke University, Durham, NC, USA
John Ohlrogge Michigan State University, East Lansing, MI, USA
Gary Stacey University of Missouri, Columbia, MO, USA
Susanne von Caemmerer Australian National University, Canberra City, ACT, Australia

Research Area and Sections

Signal Transduction and Hormone Action
 Cell Biology
 Development and Hormone Action
 Environmental Stress and Adaptation to Stress
Bioinformatics, Breakthrough Technologies, and Genome Analysis
 Systems Biology, Molecular Biology, and Gene Regulation
 Genetics, Genomics, and Molecular Evolution
 Biochemical Processes and Macromolecular Structures
 Plants Interacting with Other Organisms
 Bioenergetics and Photosynthesis
 Whole Plant and Ecophysiology

Feature Editors

Richard Amasino University of Wisconsin, Madison, WI, USA
Joseph J. Kieber University of North Carolina, Chapel Hill, NC, USA

Update and Meeting Report
Update and Meeting Report

International Board of Monitoring Editors

Kozi Asada Fukuyama, Japan	Peter Geigenberger Golm, Germany	Leon Kochian Ithaca, NY, USA	Pamela C. Ronald Davis, CA, USA
Antony Bacic Parkville, VIC, Australia	Thomas Girke Riverside, CA, USA	Joachim Kopka Golm, Germany	Jocelyn K.C. Rose Ithaca, NY, USA
Julia Bailey-Serres Riverside, CA, USA	Elzbieta Glaser Stockholm, Sweden	Ljerka Kunst Vancouver, BC, Canada	David Salt West Lafayette, IN, USA
Neil R. Baker Essex, UK	Zhizhong Gong Beijing, China	Norman G. Lewis Pullman, WA, USA	Daniel P. Schachtman St. Louis, MO, USA
Malcolm Bennett Nottingham, UK	Jeffrey Harper Reno, NV, USA	Hsou-min Li Taipei, Taiwan	Danny J. Schnell Amherst, MA, USA
C. Robin Buell Rockville, MD, USA	Paul M. Hasegawa West Lafayette, IN, USA	Chentao Lin Los Angeles, CA, USA	Edgar P. Spalding Madison, WI, USA
Daniel R. Bush Fort Collins, CO, USA	Martha Hawes Tucson, AZ, USA	Amane Makino Sendai, Japan	Lloyd W. Sumner Ardmore, OK, USA
Edgar B. Cahoon St. Louis, MO, USA	Luis Herrera-Estrella Irapuato, Mexico	M. David Marks St. Paul, MN, USA	Dina St. Clair Davis, CA, USA
Xuemei Chen Riverside, CA, USA	N. Michele Holbrook Cambridge, MA, USA	Susan Martino-Catt St. Louis, MO, USA	Tuula Teeri Stockholm, Sweden
Alice Y. Cheung Amherst, MA, USA	Gregg Howe East Lansing, MI, USA	Ron Mittler Reno, NV, USA	Mary Tierney Burlington, VT, USA
Clint Chapple West Lafayette, IN, USA	Georg Jander Ithaca, NY, USA	Mark O'Brian Buffalo, NY, USA	Aart J.E. van Bel Giessen, Germany
Vitaly Citovsky Stony Brook, NY, USA	Jacques Joyard Grenoble, France	Katherine Osteryoung East Lansing, MI, USA	Carroll P. Vance St. Paul, MN, USA
Sacco C. de Vries Wageningen, The Netherlands	Sophien Kamoun Wooster, OH, USA	Ralph Panstruga Cologne, Germany	Andreas Weber East Lansing, MI, USA
John R. Evans Canberra, ACT, Australia	Elizabeth Kellogg St. Louis, MO, USA	Sara Patterson Madison, WI, USA	Shaul Yalovsky Tel Aviv, Israel
Edward Farmer Lausanne, Switzerland	Anthony Kinney Wilmington, DE, USA	Hendrik Poorter Utrecht, The Netherlands	Kazuko Yamaguchi-Shinozaki Ibaraki, Japan
Jennifer Fletcher Albany, CA, USA		Seung Rhee Stanford, CA, USA	Yunde Zhao La Jolla, CA, USA

Publisher
American Society of Plant Biologists,
Crispin Taylor, Executive Director; ctaylor@aspb.org
Publications Director
Nancy A. Winchester; nancyw@aspb.org
Managing Editor
John Long; jlong@aspb.org

Science Writer
Peter V. Minorsky; peminorsky@aspb.org
Production Manager
Jon Munn; jmunn@aspb.org
Manuscript Manager
Leslie Ash Csikos; lcsikos@aspb.org



Plant Physiology (ISSN 0032-0889, online 1532-2548) is published monthly, in three volumes per year, by the American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD 20855-2768, USA, and is produced by Dartmouth Journal Services, Orford, NH. The institutional price for the print and online versions is based on type of institution; contact institution@aspb.org. A subscription includes both *The Plant Cell* and *Plant Physiology*; single copies may be purchased for \$75 each plus shipping. Members of the American Society of Plant Biologists may subscribe to *Plant Physiology* for \$185. Nonmember individuals may subscribe for \$350. For matters regarding subscriptions, contact Suzanne Cholwek, 15501 Monona Drive, Rockville, MD 20855-2768; telephone 301-251-0560, ext. 141; fax 301-251-6740; e-mail scholwek@aspb.org. Notify ASPB within 3 months (domestic) or 6 months (foreign) of issue date, and defective copies or copies lost in the mail will be replaced. Send all inquiries regarding display advertising to Brett Goldfine, Leonard Media Group, P.O. Box 220, Horsham, PA 19044; telephone 215-675-9133, ext. 226; fax 215-675-9376; e-mail brett@leonardmedia.com. Periodicals postage paid at Rockville, MD, and at additional mailing offices. **Postmaster:** Send address changes to *Plant Physiology*, American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD 20855-2768. The online version of *Plant Physiology* is available at www.plantphysiol.org. **Permission to Reprint:** Permission to make digital or hard copies of part or all of a work published in *Plant Physiology* is granted without fee for personal or classroom use provided that copies are not made or distributed for profit or commercial advantage and that copies bear the full citation and the following notice on the first page: "Copyright American Society of Plant Biologists." For all other kinds of copying, request permission in writing from Nancy A. Winchester, Publications Director, ASPB headquarters.
 © 2007 American Society of Plant Biologists. All rights reserved. Printed on acid-free paper. Printed in the USA.