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 Urbana, IL, USA

Associate Editors
Bonnie Bartel Houston, TX, USA
Alan M. Jones Chapel Hill, NC, USA
Richard M. Amasino Madison, WI, USA
Julia Bailey-Serres Riverside, CA, USA
C. Robin Buell East Lansing, MI, USA
Sheila McCormick Berkeley, CA, USA
Andreas P.M. Weber Düsseldorf, Germany
Susanne von Caemmerer Canberra City, ACT, Australia
Corne M.J. Pieterse Utrecht, The Netherlands
Jiming Jiang Madison, WI, USA

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

International Board of Monitoring Editors
Lisa Ainsworth Urbana-Champaign, IL, USA
Antony Bacic Parkville, VIC, Australia
Neil R. Baker Essex, UK
Malcolm J. Bennett Nottingham, UK
Daniel R. Bush Fort Collins, CO, USA
Joe Chappell Lexington, KY, USA
Alice Y. Cheung Amherst, MA, USA
Tzzy-Jen Chiou Taipei, Taiwan
Vitaly Citovsky Stony Brook, NY, USA
Hervé Cochard Clermont-Ferrand, France
Allison DeLong Providence, RI, USA
Karl-Josef Dietz Bielefeld, Germany
Jeffrey J. Doyle Ithaca, NY, USA
Robert Edwards Durham, UK

International Board of Monitoring Editors
John R. Evans Canberra, ACT, Australia
Jennifer Fletcher Albany, CA, USA
Peter Geisenberger Munich, Germany
Thomas Girke Riverside, CA, USA
Zhizhong Gong Beijing, China
Stacey Harmer Davis, CA, USA
Martha C. Hawes Tucson, AZ, USA
Luis R. Herrera-Estrella Irapuato, Mexico
Gregg A. Howe East Lansing, MI, USA
Georg Jander Ithaca, NY, USA
Elizabeth Kellogg St. Louis, MO, USA
Anthony Kinney Wilmington, DE, USA
Leon Kochian Ithaca, NY, USA
Joachim Kopka Golm, Germany
Amane Makino Sendai, Japan

International Board of Monitoring Editors
Susan Martino-Catt St. Louis, MO, USA
Maureen McCann West Lafayette, IN, USA
Scott D. Michaels Bloomington, IN, USA
Ron Mittler Denton, TX, USA
Ferenc Nagy Szeged, Hungary
Graham Noctor Paris, France
Ralf Panstruga Cologne, Germany
Marinus Pilon Fort Collins, CO, USA
Anreddy S.N. Reddy Fort Collins, CO, USA
Silke Robatzek Norwich, UK
Jocelyn K.C. Rose Ithaca, NY, USA
Wataru Sakamoto Kurashiki, Japan
David E. Salt West Lafayette, IN, USA
Ron R. Sederoff Raleigh, NC, USA
Motoaki Seki Yokohama, Japan

International Board of Monitoring Editors
Leslie E. Sieburth Salt Lake City, UT, USA
Neelima Sinha Davis, CA, USA
Nathan M. Springer St. Paul, MN, USA
Dina A. St. Clair Davis, CA, USA
Lloyd W. Sumner Ardmore, OK, USA
Dan Szymbanski West Lafayette, IN, USA
Keiko U. Torii Seattle, WA, USA
Yi-Fang Tsay Taipei, Taiwan
Carroll P. Vance St. Paul, MN, USA
Guo-Liang Wang Columbus, OH, USA
Astrid Wingler London, UK
Eleanor T. Wurtzel Bronx, NY, USA
Hong-Wei Xue Shanghai, China
Shaful Yalovsky Tel Aviv, Israel
Jürgen Zeier Düsseldorf, Germany

Publisher
American Society of Plant Biologists,
Crispin Taylor, Executive Director; ctaylor@aspb.org

Production Manager
Jon Munn; jmunn@aspb.org

Manuscript Manager
Leslie Ash Csikos; lcsikos@aspb.org

Science Writer
Peter V. Minorsky; peminorsky@aspb.org

Permissions
Contact: Permissions Manager, 15501 Monona Drive, Rockville, MD 20855–2768, USA, and is produced by Dartmouth Journal Services, Waterbury, VT. The institutional price for the print and online versions is based on type of institution; contact institution@aspb.org. A subscription includes both Plant Physiology® and Plant Cell. Single copies may be purchased for $95 each plus shipping. Members of the American Society of Plant Biologists receive free online access to the journal and may subscribe to the print version of Plant Physiology® for $210. Nonmembers individuals may subscribe for $400. For matters regarding subscriptions, contact Suzanne Cholwek, 15501 Monona Drive, Rockville, MD 20855–2768; telephone 301–634–7791; fax 301–634–7153; e-mail adnet@fasb.org. Periodicals postage paid at Rockville, MD 20850, and at additional mailing offices. 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.