

Phytopathology

An International Journal of the American Phytopathological Society

EDITOR-IN-CHIEF

Dennis C. Gross

Washington State University, Plant Pathology Department, Pullman, WA 99164-6430

Telephone: 509/335-1187 Fax 509/335-9581 E-mail: gross@wsuvm1.csc.wsu.edu

SENIOR EDITORS

Biochemistry and Cell Biology

Margaret E. Daub
North Carolina State University
Department of Plant Pathology
Box 7616
Raleigh, NC 27695-7616
Telephone: (919) 515-6986
Fax: (919) 515-7716
E-mail: margaret_daub@ncsu.edu

Phylobacteriology

Timothy Denny
University of Georgia
Plant Sciences Building
Department of Plant Pathology
Athens, GA 30602-7274
Telephone: (706) 542-1282
Fax: (706) 542-1262
E-mail: tdenny@uga.cc.uga.edu

Plant Virology

Said Ghabrial
University of Kentucky
Department of Plant Pathology
Lexington, KY 40546-0091
Telephone: (606) 257-5969
Fax: (606) 323-1961
E-mail: saghab00@ukcc.uky.edu

Epidemiology

Kenneth B. Johnson
Oregon State University
Cordley Hall 2082
Department of Botany and Plant Pathology
Corvallis, OR 97331-2902
Telephone: (503) 737-5249
Fax: (503)-737-3573
E-mail: johnsonk@bcc.orst.edu

Genetics and Resistance

James Kolmer
Agriculture Canada
Research Station
195 Dafoe Road
Winnipeg, MB
CANADA R3T 2M9
Telephone: (204) 983-0771
Fax: (204) 983-4604

Nematology

Ann E. MacGuidwin
University of Wisconsin
Department of Plant Pathology
1630 Linden Drive
Madison, WI 53706-1598
Telephone: (608) 263-6131
Fax: (608) 263-2626
E-mail: aem@plantpath.wisc.edu

Molecular and Population Genetics of Fungi

Bruce McDonald
Texas A&M University
Department of Plant Pathology & Microbiology
College Station, TX 77843-2132
Telephone: (409) 845-7311
Fax: (409) 845-6483
E-mail: bam1587@zeus.tamu.edu

Biological Control

Timothy Paulitz
Department of Plant Science
Macdonald Campus of McGill University
21,111 Lakeshore Road
Ste. Anne Bellevue, QUE
CANADA H9X 3V9
Telephone: (514) 398-7855
Fax: (514) 398-7897

Soilborne Fungi

L. W. Timmer
University of Florida
IFAS CREC
700 Experiment Station Road
Lake Alfred, FL 33850
Telephone: (813) 956-1151
Fax: (813) 956-4631
Bitnet: lwt@IFASGNV
Internet: lwt@gnv.ifas.ufl.edu

ASSOCIATE EDITORS

C. L. Bender
Oklahoma State University
W. Chen
Illinois Natural History Survey
Gil Choi
Roche Institute of Molecular Biology
Ralph Dean
Clemson University
Jim Duthie
Oklahoma State University
M. C. Edwards
USDA-ARS, Fargo, ND
J. T. English
University of Missouri
B. W. Falk
University of California, Davis
William F. Fett
Eastern Regional Research Center
James H. Graham
University of Florida
G. G. Grove
Washington State University

A. D. Hewings
USDA-ARS, Urbana, IL
S. W. Hutcheson
University of Maryland
Charles M. Kenerley
Texas A&M University
H. Corby Kistler
University of Florida
Wolfram Köller
Cornell University
Hei Leung
Washington State University
Marco Marchetti
USDA-ARS, Rice Research
Frank N. Martin
University of Florida
Jeanne Mihail
University of Missouri
F. W. Nutter
Iowa State University

G. B. Ouellette
Centr. de Res. For. des. Laur.
Bonnie Ownley
University of Tennessee
Barbara Pennypacker
The Pennsylvania State University
Sally Schneider
USDA-ARS Crops Research Lab
Dharma Shukla
CSIRO Div. of Biomolecular Engineering
R. P. Singh
CIMMYT
David O. TeBeest
University of Arkansas
Charles W. Walkinshaw
U.S. Forest Service
David M. Weller
Washington State University
Jeffrey P. Wilson
USDA-ARS, Tifton, GA

EDITORIAL AND BUSINESS STAFF

Publisher and Business Manager

Steven C. Nelson

Director of Publications

Miles Wimer

Editorial Supervisor

Jean Rice

Technical Editor

Jordana Anker

Editorial Records Coordinator

Janice Sampson

Production Manager

Steve Kronmiller

Circulation Coordinator

Carol Page



General Publication Policies

Manuscripts may be submitted for consideration of publication in PHYTOPATHOLOGY by members of The American Phytopathological Society and by nonmembers. Membership in the Society is not a prerequisite for publication in the journal, but page charges are higher for nonmembers than for members.

Submission of manuscripts: Submit one copy of the manuscript with original figures to the appropriate senior editor (see Editorial Board) and two copies with figures to The American Phytopathological Society Editorial Office, 3340 Pilot Knob Road, St. Paul, MN 55121-2097. (A copy of the cover letter to the Senior Editor should accompany the copies mailed to the Editorial Office.) Submit Letters to the Editor, Obituaries, and Mini-Reviews to the Editor-in-Chief. Submission implies nonsubmission elsewhere and (if accepted) no publication elsewhere in the same form without consent.

Content: Contributions should fall into the following categories: 1) Original research on some aspect of plant pathology. Subject matter is not a criterion for judging an article for publication in PHYTOPATHOLOGY. It is, however, the author's duty to establish relevancy to the science of plant pathology. 2) Obituaries. 3) Letters to the Editor: These may explain, amplify, or otherwise comment upon research published in the journal or elsewhere. Letters to the Editor are reviewed in the same manner as other contributions, and the Editorial Board reserves the right to reject or publish letters of rebuttal when appropriate. If possible, the opportunity will be provided for a letter of rebuttal to appear in the same issue as the letter to which it is directed. 4) Mini-Reviews: These will focus on current literature and work on a specific area of research.

Authors may include with *revised* manuscripts an illustration or illustrations (photographs, drawings, or diagrams) that are from an article or related to an article that they would like to have considered for the cover. Such figures should be labeled.

The emphasis in PHYTOPATHOLOGY is on research that advances understanding of the nature of plant diseases, their spread, the losses they cause, and measures that can be used to control them. Acceptance depends on the originality of the work, soundness of organization of the manuscript, reliability of the methods in terms of their adequacy to support conclusions, clarity of presentation, validity of the reasoning in deriving the conclusions, and the possibility of alternative interpretations. Authors should display an awareness of previously published information on the same subject and relate their findings to it. Appropriate statistical analyses should be included. In general, an article in which the conclusions are based on unrepeatable experiments is unacceptable.

Page charges: Because of the high cost of publishing articles in PHYTOPATHOLOGY, payment of page charges is mandatory. Page charges are subject to change and will not be finalized until the author gets the galley proofs. Current charges are \$80 per printed page for members of The American Phytopathological Society and \$130 per printed page for nonmembers, plus \$15 per halftone or composite illustration. Cost of color: one page of color containing one figure, \$1,300; each additional page of color containing one figure each, \$600; each additional figure on any one page, \$200. Manuscripts not submitted for final processing on computer diskette are subject to a \$50 per article surcharge to cover the costs of copy input. The author is billed after the article is printed in the journal.

Separates: No free copies are supplied. Reprints are available to authors at a nominal cost; an order form will be provided and must be returned with the proof.

For style details, follow: Author's Guide for Manuscript Preparation, PHYTOPATHOLOGY 84:5-8, 1994. Authors are urged to have one or more colleagues read the manuscript *critically* prior to submission.

Use of material from this journal: PHYTOPATHOLOGY is copyrighted, and those who wish to use illustrations or data appearing in PHYTOPATHOLOGY in other publications should obtain the permission of The American Phytopathological Society and the author of the paper and provide a line crediting PHYTOPATHOLOGY as the source of the material.

Authorization to photocopy copyrighted material for internal or personal use, or internal or personal use of specific clients, is granted by The American Phytopathological Society for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that a base fee of \$3.00 per copy of an article is paid directly to CCC, 27 Congress St., Salem, MA 01970; tel.: 508/744-3350. 0031-949X/94 \$3.00 + .00.

Subscriptions

Communications should be addressed to The American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121-2097. **Nonmember subscription price:** \$235 per year domestic, \$280 elsewhere. Canadian subscribers, please add 7% GST and a \$5 service fee. (Canadian GST #R 12988129.) Subscription price includes expedited mailing. All payments must be made in U.S. funds, through a member bank of the U.S. Federal Reserve System. **Single current issues** (within 60 days of publication) \$25. (Prices of other single issues on request).

Advertisements

No endorsement or any statement of claims made in advertisements is assumed by this journal or The American Phytopathological Society.

Membership in APS

Information concerning membership in The American Phytopathological Society and special publication rates for members are available from the business office of the Society.

PHYTOPATHOLOGY (ISSN 0331-949X) is published monthly at The American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121-2097 ([612]454-7250). Second class postage paid at St. Paul, MN USPS 431-540.

POSTMASTER: Send address changes to Phytopathology, 3340 Pilot Knob Road, St. Paul, MN 55121-2097.

PHYTAJ: 84 (7):661-778

PHYTOPATHOLOGY for June (551-660) was issued 17 June 1994.