

# plant disease

AN INTERNATIONAL JOURNAL OF APPLIED PLANT PATHOLOGY

## Editorial Board

**Editor-in-Chief:** M. C. Shurtleff

**Senior Editors:** H. S. Aldwinckle, O. H. Calvert, R. T. Gudauskas,  
D. E. Mathre, D. C. Norton

**Associate Editors:** G. N. Agrios, M. Aragaki, S. V. Beer, D. M. Benson,  
R. S. Byther, R. B. Carroll, R. Charudattan, P. F. Colbaugh, D. L. Coplin,  
L. D. Dwinell, H. S. Fenwick, R. L. Gilbertson, G. D. Griffin, K. F. Harris,  
J. R. Hartman, F. Hawksworth, L. G. Houck, H.-T. Hsu, W. R. Jarvis,  
J. G. Kantzes, J. M. Kraft, M. L. Lacy, K. T. Leath, S. M. Lim, J. W. Lorbeer,  
A. H. McCain, W. Merrill, Jr., J. E. Mitchell, H. E. Moline, J. M. Ogawa,  
J. E. Partridge, P. C. Pecknold, J. A. Percich, C. A. Powell, D. C. Ramsdell,  
S. Rich, R. M. Ries, R. W. Roncadori, G. S. Santo, M. Sasser, A. L. Scharen,  
F. W. Schwenk, S. A. Slack, G. C. Smart, Jr., P. W. Steiner, J. C. Sutton,  
R. K. Webster, R. D. Wilcoxson, W. H. Wills, W. Witcher, T. A. Zitter

**Editorial Advisory Board:** K. R. Barker, G. W. Bruehl, H. C. Mellinger, A. O. Paulus,  
M. C. Shurtleff, B. G. Tweedy, G. L. Worf, T. Kommedahl (Publications Coordinator)

**Feature Editor:** A. O. Paulus

**Editorial Editor:** C. W. Horne

## Editorial Policies

PLANT DISEASE is an official monthly publication of The American Phytopathological Society. This international journal of applied plant pathology publishes original research articles; reports of new diseases and epidemics; feature articles on needs, approaches, and accomplishments; and exchanges of news, ideas, and opinions. All opinions, editorials, and papers published in PLANT DISEASE reflect the views of the authors and are not necessarily the views of the Society or of the institutions with which the authors are affiliated. The Editorial Board reserves the right to reject or accept letters for publication and to edit letters for clarity and conciseness.

**Submission of manuscripts:** Manuscripts should be mailed to PLANT DISEASE, The American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121. Manuscripts should not be submitted to the Editor-in-Chief. Submission implies nonsubmission elsewhere and, if the manuscript is accepted, no publication elsewhere in the same form without consent. Manuscripts from nonmembers as well as from members of the Society will be considered for publication.

**Page charges:** Because of the high cost of publishing articles in PLANT DISEASE, a charge of \$65 per printed page is mandatory. A letter confirming that the author or the author's institution, company, or research sponsor will honor the page charges must accompany each manuscript submitted.

**Separates:** Reprints of articles or free copies of PLANT DISEASE are not available from the publisher. After publication, negatives will be sent to authors on request, for a postage and handling fee. Negatives are destroyed one year after publication.

**Use of material:** PLANT DISEASE is copyrighted, and anyone wishing to use data or illustrations appearing in this journal in another publication must obtain permission from The American Phytopathological Society and the author(s) of the paper and provide a line crediting PLANT DISEASE as the source. The appearance of the code at the bottom of the first page of each article indicates that—except where direct copying licenses have been granted by the copyright owner—the copyright owner requires the user to pay the stated per-copy fee through the Copyright Clearance Center, Inc., 19th Floor, One Park Avenue, New York, NY 10016, for any copying beyond that permitted under Sections 107 and 108 of the U.S. Copyright Law.