

CONTENTS
JOURNAL OF NEMATOLOGY

Vol. 34, No. 3

September 2002

Symposium Papers

Application of GIS and GPS Precision Agriculture Technologies in Nematology and Plant Pathology

*Presented at the joint American Phytopathological Society, Society of Nematologists, Mycology Society of America
Salt Lake City, Utah, August 25–29, 2001*

Embracing the Emerging Precision Agriculture Technologies for Site-Specific Management of Yield-Limiting Factors. H. MELAKEBERHAN	185
Plant Pathogen Population Dynamics in Potato Fields. G. D. MORGAN, W. R. STEVENSON, A. E. MACGUIDWIN, K. A. KELLING, L. K. BINNING, AND J. ZHU	189
Site-Specific Management of Nematodes—Pitfalls and Practicalities. KEN EVANS, RICHARD M. WEBSTER, PAUL D. HALFORD, ANTHONY D. BARKER, AND MICHAEL D. RUSSELL	194
Utilization of GIS/GPS-Based Information Technology in Commercial Crop Decision Making in California, Washington, Oregon, Idaho, and Arizona. C. S. THOMAS, P. W. SKINNER, A. D. FOX, C. A. GREER, AND W. D. GUBLER	200
GIS and Remote Sensing for Detecting Yield Loss in Cranberry Culture. PETER V. OUDEMANS, LARISA POZDNYAKOVA, MARILYN G. HUGHES, AND FAIZ RAHMAN	207
Discriminating <i>Tsuga canadensis</i> Hemlock Forest Defoliation Using Remotely Sensed Change Detection. D. D. ROYLE AND R. G. LATHROP	213
Use of Remote Sensing to Detect Soybean Cyst Nematode-Induced Plant Stress. F. W. NUTTER, JR., G. L. TYLKA, J. GUAN, A. J. D. MOREIRA, C. C. MARETT, T. R. ROSBURG, J. P. BASART, AND C. S. CHONG	222

Further Use of Geostatistical Analysis

Using Geostatistical Analysis to Evaluate the Presence of <i>Rotylenchulus reniformis</i> in Cotton Crops in Brazil: Economic Implications. P. R. S. FARIAS, X. SÁNCHEZ-VILA, J. C. BARBOSA, S. R. VIEIRA, L. C. C. B. FERRAZ, AND J. SOLÍS-DELFIN	232
--	-----

Entomopathogenic Nematodes

Effects of Entomopathogenic Nematodes on <i>Meloidogyne javanica</i> on Tomatoes and Soybeans. DECLAN J. FALLON, HARRY K. KAYA, RANDY GAUGLER, AND BRENT S. SIPES	239
Susceptibility of the Plum Curculio, <i>Conotrachelus nenuphar</i> , to Entomopathogenic Nematodes. DAVID I. SHAPIRO-ILAN, RUSSELL F. MIZELL, III, AND JAMES F. CAMPBELL	246

Morphological and Molecular Relationships among the Cyst Nematodes and Closely Related Species
A Key and Compendium to Species of the *Heterodera avenae* Group (Nematoda: Heteroderidae). ZAFAR A. HANDOO

250

Phylogenetic Relationships of a Distinct Species of <i>Globodera</i> from Portugal and Two <i>Punctodera</i> Species. A. SABO, L. G. L. REIS, E. KRALL, M. MUNDO-OCAMPO, AND V. R. FERRIS	263
---	-----

Response of Plant Hosts and Microflora to the Citrus Nematode

Eggs of <i>Tylenchulus semipenetrans</i> Inhibit Growth of <i>Phytophthora nicotianae</i> and <i>Fusarium solani</i> in vitro. F. E. EL-BORAI, L. W. DUNCAN, AND J. H. GRAHAM	267
Osmolyte Allocation in Response to <i>Tylenchulus semipenetrans</i> Infection, Stem Girdling, and Root Pruning in Citrus. P. W. MASHELA AND M. E. NTHANGENI	273