Focus

Compiled by Thor Kommedahl

Protein Rcr3 is required for the Cf-2 gene in tomato to activate resistance to Cladosporium fulvum and suppress autonecrosis, report J. Krüger and associates at John Innes Centre, University of East Anglia, Norwich, University of Southhampton, UK; Indiana University, and University of North Carolina. (Science 296:744-747, 2002)

Xylem vessel diameter and proportion of large to small vessels was correlated with susceptibility of Ulmus minor to Dutch elm disease according to A. Solla and L. Gil of the Universidad Politécnica de Madrid, Madrid, Spain.(For. Pathol. 32:123-134, 2002)

Polyclonal antibodies of recombinant single-chain variable fragments inhibited growth and motility but not glucose metabolism of Spiroplasma citri in liquid culture, report S. Malembie and associates at INRA and Université Victor Ségalen, Villenave d'Ornon, France. (Appl. Environ. Microbiol. 68:2113-2119, 2002)

A specific binding site for the eukaryotic elongation factor 1A in the upstream pseudoknot domain of crucifer-infecting Tobacco mosaic virus that does not require aminoacylation was detected by V. V. Zeenko and associates at the Friedrich Miescher Institute, Basel, Switzerland; Russian Academy of Science, Pushchino; and the University of Texas, Austin. (J. Virol. 76:5678-5691, 2002)

Fungi and nematodes together cause root and stolon rot in white clover to reduce yield and persistence of white clover in pastures, report M. I. Zahid and associates at the University of Sydney, Orange Agricultural Institute, and Wollonbar Agricultural Institute, in New South Wales, and CSIRO, Canberra, ACT, Australia. (Plant Pathol. 51:242-250, 2002)

Phylogenies can be inferred using Phylogenetic Analysis Task in Husar (PATH) with three phylogenetic methods that can select an evolutionary model for each set of data according to C. del Val and associates at DKFZ, Heidelberg, Germany. (Bioinformatics 18:646-647, 2002)

Ammonia and ammonium were dominant N pollutants in forest and other ecosystems in the Sequoia National Park according to A. Bytnerowicz and associates at the USDA Forest Service, Riverside, California; Karl-Franzens-Universtat, Graz, Austria; and DIAE-CIEMAT, Madrid, Spain. (Environ. Pollut. 118:187-203, 2002)

Mating-type loci (MAT1-1 and -2) from the wheat Septoria leaf blotch pathogen were cloned and sequenced by C. Waalwijk and associates at Plant Research International, and Wageningen University, Wageningen, The Netherlands. (Fungal Genet. Biol. 35:277-286, 2002)

The most important agronomic trait that affected disease severity to white mold and yield in Phaseolus vulgaris was indeterminate growth habit, report J. M. Kolkman of Oregon State University, and J. D. Kelly of Michigan State University. (Crop Sci. 42:693-699, 2002)

A new variety of Claviceps purpurea on Spartina with larger sclerotia, larger intercellular spaces, and thicker rinds than in common ergot, so sclerotia float to aid dispersal, was found by R. A. Duncan Jr. and associates at Rutgers University, New Jersey, USDA/ARS and Oregon State University, Corvallis. (Mycotaxon 81:11-25, 2002)

Ascospore discharge by Gibberella zeae may occur from buildup of turgor pressure generated by ion fluxes and manitol accumulation, report F. Trail and associates at Michigan State University, and Cornell University, Geneva, NY. (Mycologia 94:181-189, 2002)

Publication no. D-2002-0520-01O