

Focus

Compiled by Thor Kommedahl

Marketable yields of potato after grade-out to scab were highest at soil pH 9; incidence and severity of scab lesions declined with increases above 8.5, reports D. Waterer of the University of Saskatchewan, Saskatoon, Canada. (Can. J. Plant Sci. 83:583-586, 2002)

Variation in Alternaria brassicicola on crucifers was detected using amplified fragment length polymorphisms which consistently distinguished among 3 species, report C. H. Bock and associates at CSIRO-Plant Industry, Canberra, ACT, Australia. (Mycol. Res. 106:428-434, 2002)

Disruption of the charged amino acid residues in the negatively charged loop structure (β H- β I) reduces or eliminates aphid vector transmissibility of Cucumber mosaic virus, report S. Liu and associates at Purdue University, West Lafayette, Indiana, and Cornell University, Ithaca, New York. (J. Virol. 76:9756-9762, 2002)

Cellulases in the endogenous hydrolytic enzyme ensemble can facilitate penetration and intracellular migration by two cyst nematodes in potato roots during parasitism according to E. Grenier and associates at UMR INRA/ENSAR, Le Rheu, France, and the Scottish Crop Research Institute, Dundee, UK. (Mol. Plant Pathol. 3:217-226, 2002)

Postinoculation brushing treatments of peach with Pseudomonas syringae gave less than 20% control of rhizopus rot while fludioxonil and tebuconazole gave 90% control, report J. Northover and T. Zhou at Agriculture and Agri-Food Canada at Vineland Station and Guelph, Ontario, Canada. (Can. J. Plant Pathol. 24:144-153, 2002)

Transgene mRNA for a silencing suppressor can be silenced by a presumably strong silencing inducer (replicating homologous virus) with Potato virus A in Nicotiana benthamiana, report E.I. Savenkov and J.P.T. Valkonen at the Genetic Centre, Uppsala, Sweden, and the University of Helsinki, Finland. (J. Gen. Virol. 83:2325-2335, 2002)

Sensitivity of 25 barley cultivars to the toxin marasmine was correlated with barley susceptibility to isolate mixtures of Pyrenophora teres, report I. Weiergang and associates at The Royal Veterinary and Agricultural University, Frederiksberg, Denmark. (Physiol. Mol. Plant Pathol. 60:121-129, 2002)

A salicyclic acid-binding protein in tobacco chloroplasts was sequenced to reveal carbonic anhydrase (CA); silencing of the CA gene expression in leaves suppresses hypersensitivity in disease resistance, report D. H. Slaymaker and associates at Rutgers, New Jersey, and Boyce Thompson Institute, Ithaca, New York. (Proc. Natl. Acad. Sci. USA 99:11640-11645, 2002)

Barley lines with resistance to Fusarium head blight and with acceptable accumulation of deoxynivalenol are possible using resistance from 2-rowed accession Ciho 4196, report C. A. Urrea and associates at North Dakota State University, Fargo, and University of Minnesota, St. Paul. (Crop Sci. 42:1404-1408, 2002)

Inbreds of sunflower with high resistance to Sclerotinia head rot were identified in a 4-year trial by V. Hahn at the Universität Hohenheim, Willstätt, Germany. (Field Crops Res. 77:153-159, 2002)

Tropolone inhibits wood degradation from Poria placenta by chelating iron in wood according to P. N. Diouf and associates at UMR INRA, UMR CNRS, and Université Henri Poincaré Nancy I, Vandoeuvre-les-Nancy, France. (Appl. Environ. Microbiol. 68:4377-4382, 2002)