Focus

Compiled by Thor Kommedahl

Barley cultivars susceptible to stem rust can be made more resistant by transformation using the cloned Rpg1 gene, report H. Horvath and associates at Washington State University, Pullman, and University of Minnesota, St. Paul. (Proc. Natl. Acad. Sci. USA 100:364-369, 2003)

Vegetative incompatibility between isolates of Glomus mosseae was detected first by M. Giovannetti and associates at the Università di Pisa, and Istituto di Biologia e Biotecnologia, Pisa, Italy. (Appl. Environ. Microbiol. 69:616-624, 2003)

Enhancer-like activity of a Bromus mosaic virus RNA promoter was reported by C. T. Ranjith-Kumar and associates at Indiana University, Bloomington. Two modes of initiation site recognition by a viral RNA replicase were documented. (J. Virol. 77:1830-1839, 2003)

The moc and mot genes of Ti plasmids in Agrobacterium tumefaciens and their catabolic pathways have evolved convergently and independently according to C.-B. Baek and associates at Sogang University, Seoul, Korea, and University of Illinois, Urbana. (J. Bacteriol. 185:513-524, 2003)

Sugar beet cultivars resistant to both beet cyst nematode and Beet necrotic yellow vein virus behave like nematode-resistant cultivars in soil infested with nematodes only but are superior to single-resistant cultivars if both pathogens are present, report W. Heijbroek and associates at the Institute of Sugar Beet Research, The Netherlands. (Eur. J. Plant Pathol. 108:735-744, 2002)

Germinating spores of Magnaporthe grisea undergo endocytosis, which may relate to spore germination and growth prior to leaf penetration, report H. A. Atkinson and associates at the University of Edinburgh, and Aventis Crop Science, Essex, UK. (Fung. Genet. Biol. 37:233-244, 2002)

Copper compounds in fertilizer without phosphate control Erwinia soft rot of calla lily, report J. A. Gracia-Garza and associates at Agriculture and Agri-Food Canada, University of Guelph, and Ontario Ministry of Agriculture, Food and Rural Affairs, Vinland Station, Canada. (Can. J. Plant Pathol. 24:274-280, 2002)

Silicon can control rice sheath blight where soil is deficient in silicon and blight-resistant cultivars are unavailable, report F. A. Rodrigues and associates at the University of Florida, Gainesville and Belle Glade; Universidade Federal de Vicosa and Uberlandia, and Centro Nacional de Pesquisa de Arroz e Feijão; Brazil. (Crop Prot. 22:23-29, 2003)

Probenazole induces systemic acquired resistance in tobacco to Tobacco mosaic virus, Pseudomonas syringae, and Oidium sp., report H. Nakashita and associates at the RIKEN Institute, and Saitama University, Saitama, Japan. (Physiol. Mol. Plant Pathol. 61:197-203, 2002)

Calcium hydroxide increased growth of Bacillus amyloliquefaciens, inhibited germination of Botrytis elliptica, and decreased severity caused by B. elliptica on lily, report A. L. Chou and W. S. Wu of the National Taiwan University, Taipei. (J. Phytopathol. 151:13-18, 2003)

A new resistance locus, Rps8, of soybean to Phytophthora sojae was mapped to major linkage group A2 in two crosses with PI399073, report K. D. Burnham and associates at The Ohio State University, Wooster. (Crop Sci. 43:101-105, 2003)

Publication no. D-2003-0120-01O