

Focus

Compiled by Thor Kommedahl

The genome of Pseudomonas syringae pathogenic to tomato and Arabidopsis was sequenced by C. R. Buell at The Institute for Genomic Research, Rockeville, MD, and associates at USDA, Boyce Thompson Institute, universities of Cornell, Nebraska, Missouri, Kansas State, and Oklahoma State. (Proc. Nat. Acad. Sci. USA 100:10181-10186, 2003)

Strains of Fusarium oxysporum triggered H₂O₂ production in flax roots but nonpathogenic strains produced a second burst 3 hours after inoculation to enable distinction of strains, report C. Olivain and associates at INRA-CMSE, Dijon, France. (Appl. Environ. Microbiol. 69:5453-5462, 2003)

Inoculation with Glomus coronatum stimulated tomato plant growth and reduced infestation by Meloidogyne incognita, report P. M. Diedhiou and associates at the Institute for Plant Diseases, Bonn, Germany. (Mycorrhiza 13:199-204, 2003)

Packaging of Bromus mosaic virus RNA3 requires a bipartite signal according to Y. G. Choi and A. L. N. Rao of the University of California, Riverside. (J. Virol. 77:9750-9757, 2003)

Two species in the Fusarium solani complex cause sudden death syndrome in soybean, report T. Aoki and associates at the National Institute of Agrobiological Sciences and Japan International Research Center, Tsukuba, Japan; USDA-ARS, Peoria, Illinois; INTA-EEA, Córdoba, Argentina. (Mycologia 95:660-684, 2003)

Because kernel discoloration and grain protein concentration in barley are genetically linked, selection depends on whether both are controlled by linked genes or by the same gene, report P. C. Canci and associates at the University of Minnesota, St. Paul. (Crop Sci. 43:1671-1679, 2003)

Secretory pathway and cytoskeleton are parts of tubule assembly for Grapevine fanleaf virus movement protein in tobacco, report C. Laporte and associates at Institut de Biologie Moléculaire des Plantes, Strasbourg, France, and University of Heidelberg, Germany. (Plant Cell 15:2058-2075, 2003)

Of five Phytophthora spp., P. cinnamomi caused the most severe root rot and seedling mortality in English walnut, report A. M. Vettraino and associates at University of Studies of Tuscany and Istituto Sperimentale per la Patologia Vegetale, Rome, Italy. (Plant Pathol. 52:491-495, 2003)

Using Bt corn hybrids or insecticides to control European corn borer reduces contamination of kernels with moniliformin in Central Europe, report T. Magg and associates at University of Hohenheim, Stuttgart, Germany, and University of Illinois, Urbana. (Plant Breed. 122:322-327, 2003)

Treating tomato plants with the plant activator ASM reduced severity of bacterial canker and bacterial growth in plants, report S. Soylu and associates at University of Mustafa Kemal, Hatay, and Bornova Plant Protection Research Institute, Izmir, Turkey. (Plant Sci. 165:1069-1075, 2003)

Spongisorpa subterranea can be detected in soil, water, and plant tissue using real-time PCR, report P. van de Graaf and associates at the Scottish Crop Research Institute, Dundee, UK. (Eur. J. Plant Pathol. 109:589-597, 2003)