Focus

Compiled by Thor Kommedahl

A Paenibacillus sp. that is antagonistic to soilborne fungal pathogens and that stimulates mycorrhization was isolated from the mycorrhizosphere of sorghum inoculated with Glomus mosseae by S. W. Budi and associates at INRA/CNRS in Dijon Cedex, France; and the Universitá degli Studi di Torino, Alessandria, Italy. (Appl. Environ. Microbiol. 65:5148-5150, 1999)

Root and leaf weights of rice were correlated negatively with juvenile population densities of Heterodera sacchari in the West Africa Rice Development Association fields in Ivory Coast, report D. L. Coyne of Natural Resources Institute, Kent, and CABI Bioscience, Surrey, UK. (Int. Rice Res. Notes 24[2]:21-22, 1999)

Brome mosaic virus RNA replication in yeast duplicates localization of replication complexes, and protein 1a is partly responsible for localization of endoplasmic reticula and retention of RNA replication complexes, report M. Restropo-Hartwig and P. Ahlquist of the Howard Hughes Medical Institute and the University of Wisconsin, Madison. (J. Virol. 73:10303-10309, 1999)

Suillus variegatus and Paxillus involutans overgrowing saprotrophic Hypholoma fasciculare capture and translocate nutrients from the saprotroph to the host Pinus sylvestris, according to B. Lindahl and associates at SLU, Uppsala, Sweden, and KVL, Fredriksberg, Denmark. (New Phytol. 144:183-193, 1999)

The finding that strains in serogroup O1 occur in 15 pathovars, and strains with linear OPSs of chemotype 1A occur in 9 of 15 pathovars, improves Pseudomonas syringae classification, report V. V. Ovod and associates at the University of Tampere, Finland; the Russian Academy of Sciences, Moscow; and INRA, Beaucouze Cedex, France. (J. Bacteriol. 181:6937-6947, 1999)

Straw cultures of Fusarium avenaceum in bags gave abundant macroconidia used to control marsh reed grass, reports R. S. Winder of the Canadian Forest Service, Victoria, BC, Canada. (Mycol. Res. 103:1145-1151, 1999)

High temperatures prevent systemic invasion by Impatiens necrotic spot virus, but favor or unalter it for Tomato spotted wilt virus, in Capsicum chinense and C. annuum, report P. Roggero and associates at Istituto di Fitovirologia Applicata, Torino, Italy. (Eur. J. Plant Pathol. 105:509-512, 1999)

The great similarity in populations of Puccinia graminis f. sp. tritici on wheat in South America, North America, and Europe suggests that all have arisen from a common ancestral population in Europe, according to B. D. McCallum and associates at the University of Minnesota and the USDA Cereal Disease Laboratory, St. Paul. (Plant Pathol. 48:574-581, 1999)

Dichlofluanid mixed with iprodione controlled fruit rot of strawberry with residues on fruit less than the maximum residue limits, report W. S. Washington and associates at Agriculture Victoria and the Institute for Horticultural Development, Victoria, Australia. (Plant Prot. Q. 14:88-91, 1999)

Pseudomonas syringae pv. persicae produces persicomycin, which causes necrosis in peach tree tissues; however, the bacterium is resistant to its own toxin, according to M. R. Barzic at INRA, Beaucouze Cedex, France. (Physiol. Mol. Plant Pathol. 55:243-250, 1999)

In 1986–1987, all mating types of Phytophthora infestans on potato in the Volcano district on the island of Hawaii were A1 and sensitive to metalaxyl, but 7 years later all were A2 and resistant, report W.-C. Ho and W.-H. Ko of the University of Hawaii at Manoa, Hilo, Hawaii. (Ann. Phytopathol. Soc. Jpn. 65:286-292, 1999)

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