

Resistance of rice to Magnaporthe grisea was induced by prior infestation with Sogatella furcifera, report H. Kanno and associates at the National Agricultural Research Center for Kyushu Okinawa and Hokkaido Regions, Japan. (Appl. Entomol. Zool. 40:91-97, 2005)

Wheat-alien species derivatives proved resistant to Fusarium head blight and included amphiploids, synthetic hexaploid wheat lines, and wheat-alien substitution and translocation lines, report R. E. Oliver and associates at North Dakota State University and USDA-ARS, Fargo. (Crop Sci. 45:1353-1360, 2005)

Leaf cholesterol content is greatest in mulberry cultivars most sensitive to small leaf curl disease, and the sitosterol to stigmasterol ratio decreases with cultivar resistance, report N. E. Zambakhidze and associates at Academy of Sciences, Tbilisi, Georgia. (Appl. Biochem. Microbiol. 41:404-406, 2005)

The capsid protein of Satellite Panicum mosaic virus facilitates efficient satellite virus infection and movement in millet plants, report R. T. Omarov and associates at Texas A&M University. (J. Virol. 79:9756-9764, 2005)

A citrate synthase deletion mutant of Agrobacterium tumefaciens reduced vir gene expression 10-fold to likely account for attenuated virulence, report M. Suksomtip and associates at the University of Washington, Seattle. (J. Bacteriol. 187:4844-4852, 2005)

Sugar beet and spinach seeds treated with Lysobacter sp. strain SB-K88 were significantly more resistant to damping-off caused by Aphanomyces cochlioides, likely due to antibiosis and rhizoplane biofilms, report M.T. Islam and associates, Hokkaido University, Sapporo, Japan. (Appl. Environ. Microbiol. 71:3786-3796, 2005)

Saccharin applied to leaves induced systemic protection of broad bean to rust after 14 days but as a soil drench protected plants after 6 days and up to 14 days after application, report C. Boyle and D. Walters at Scottish Agricultural College, Edinburgh, UK. (New Phytol. 167:607-612, 2005)

Agrobacterium tumefaciens modifies cytokinin biosynthesis by sending an enzyme (Tmr) into host plastids to promote tumorigenesis, report H. Sakakibara and associates at RIKEN, Yokohama and Wako; Forestry and Forest Products Research Institute, Ibaraki; and University of Tokyo, Japan. (Proc. Natl. Acad. Sci. USA 102:9972-9977, 2005)

Cotton grown with potassium fertilizers hosted a post-harvest population of the reniform nematode 12% greater than in the control plots, report W. T. Pettigrew and associates at USDA-ARS, Stoneville, MS. (Agron. J. 97:1245-1251, 2005)

Single-chain monoclonal antibodies (two led to high degree of resistance) confer resistance to Tomato spotted wilt virus, report M. Prins and associates at Wageningen University, Netherlands. (J. Gen. Virol. 86:2107-2113, 2005)

Acetic acid fumigation of apple rootstocks and dormant shoots prevented growth of Erwinia amylovora, Pseudomonas syringae, and powdery mildew, report P. L. Sholberg and associates at Agriculture and Agri-Food Canada, Summerland, BC, Canada. (HortTechnology 15:591-596, 2005)