

Gene aopB is an outer membrane protein involved in tumorigenesis of Agrobacterium tumefaciens but is not essential for expression of the Ti plasmid encoded vtr genes required for tumorigenesis, report Y. H. Jia and associates at the National University of Singapore, and China Agricultural University, Beijing. (Gene 284:113-124, 2002)

Proteinases of Beet yellow virus critical for genome replication are separable from polyprotein processing and are required for virus invasion and cell-to-cell movement, report C.-W. Peng and associates at Oregon State University, Corvallis, and the Leiden University Medical Center, Leiden, The Netherlands. (Virology 294:75-84, 2002)

An in vivo genetic screen served to identify 13 effectors secreted by type III apparatus of Pseudomonas syringae, report D. S. Gutterman and associates at the University of Toronto, Canada, and the University of Chicago. Some effectors may enable adaptation to different hosts. (Science 295:1722-1726, 2002)

Treating spruce and pine stumps with urea raises the pH of sapwood but not hardwood to inactivate Heterobasidion annosum, report S. M. Johansson and associates at the Swedish University of Agricultural Sciences, Uppsala, and the Northern Research Station, Midlothian, Scotland. (For. Ecol. Manag. 157:87-100, 2002)

In Rice yellow mottle virus areas in Tanzania, populations of the vectors Chaetocnema sp. and C. pulla were greatest, report O. O. Banwo and associates at the Sokoine University of Agriculture, Morogoro, the Tropical Pesticides Research Institute, Arusha, and the Agricultural Research Institute, Ifakara, Tanzania. (Int. Rice Res. Notes 26[2]:41-42, 2001)

Of 29 lichens studied, Phaeophyscia orbicularis alone is a sufficient bioindicator to monitor atmospheric pollution, report R. Piervittori and S. Maffei at the Università di Torino Viale Mattioli, Torino, Italy. (Cryptogam. Mycol. 22:297-310, 2001)

Red streak in felled spruce wood is caused by Stereum sanguinolentum, whose mycelium reaches its greatest density in the medullary rays according to G. Kleist of the Imperial College of Science, Technology and Medicine, London, UK. It uses up storage compounds in living ray parenchyma. (Z. Mykol. 67:213-224, 2001)

Nematodes increase salinity ions in citrus leaves and reduce salinity ions in roots, and reduce K in both leaves and roots, according to P. W. Mashela and M. E. Nthangeni at the University of the North, Sovenga, Republic of South Africa. (J. Phytopathol. 150:60-64, 2002)

Artichoke yellow ringspot virus was found for the first time in vetch, and it is seed transmitted, report M. Terzakis and associates at the Plant Protection Institute, Heraklion, the Aristotle University of Thessaloniki, Greece, and the Scottish Crop Research Institute, Dundee, Scotland. (Phytoparasitica 30:195-197, 2002)

Only the beta isomer of aminobutyric acid induced resistance of cauliflower to downy mildew according to D. Silué and associates at Bretagne Biotechnologie Végétale, Saint Pol-de-Léon, France, and Bar-Ilan University, Ramat Gan, Israel. (Plant Pathol. 51:97-102, 2002)

Hypersensitive cell death associated with the gene cf9-Avr9 response is not required for quantitative disease resistance of tomato to several fungal pathogens according to C. Hennin and associates at Ghent University, and Aventis CropScience, Ghent, Belgium. (Mol. Plant Pathol. 3:31-41, 2002)