

Low gene copy number shows that arbuscular mycorrhizal fungi inherit genetically different nuclei (consequences for understanding genome evolution) report M. Hijri and I. R. Sanders at the University of Lausanne, Switzerland. (Nature 433:160-163, 2005)

The same loop structure (SL2) that functions as a trans-activator for RNA-mediated coat protein expression is required for replication of RNA2 itself in Red clover necrotic mosaic virus, report M. Tatsuta and associates at Kyoto University, Japan. (J. Virol. 79:978-986, 2005)

The hrpK operon of Pseudomonas syringae pv. tomato encodes two proteins secreted by the Type III (Hrp) protein secretion system (a type III effector and a type III translocator) report T. Petnicki-Ocwieja and associates at the University of Nebraska, Lincoln. (J. Bacteriol. 187:649-663, 2005)

The locus that conditions root-knot resistance in peach was placed in the Mi locus on Prunus linkage group 2 on the genetic linkage map, report A. M. Gillen at USDA-ARS R&E Center, Aberdeen, ID, and F. A. Bliss, Seminis Vegetable Seeds, Woodland, CA. (J. Am. Soc. Hortic. Sci. 130:24-33, 2005)

Phytoremediation was effective in dissipating polycyclic aromatic hydrocarbons from root decay organisms in rhizosphere soil by using fescue and sweet clover as target plants, report Z. D. Parrish and associates at the Connecticut Agricultural Experiment Station, New Haven, and Purdue University, IN. (J. Environ. Qual. 34:207-216, 2005)

Lophodermium macci is described as a new species on 5-needle pines, separate from L. pini-excelsae, using DNA analyses, report S. Sokolski at the Université Laval, Québec, Canada. (Mycologia 96:1261-1267, 2004)

Overexpression of DNA helicase in pea seedlings responding to high salt is driven by a constitutive cauliflower mosaic virus-³⁵S promoter in tobacco to confer salinity tolerance, report N. Sanan-Mishra and associates at the International Centre for Genetic Engineering and Biotechnology, New Delhi, India. (Proc. Nat. Acad. Sci. USA 102:509-514, 2005)

Rotylenchus reniformis-resistant soybean cultivars, instead of corn or sorghum, in a crop sequence to manage R. reniformis in cotton is effective, report A. Westphal at Purdue University, IN, and A. W. Scott, Jr. at Rio Farms, Monte Alto, TX. (Crop Sci. 45:233-239, 2005)

A clp gene homologue regulates lytic enzyme production and biocontrol activity in Lysobacter enzymogenes to control sugar beet damping-off and fescue leaf spot, report D. Y. Kobayashi and associates at Rutgers University (NJ) and University of Nebraska (Lincoln). (Appl. Environ. Microbiol. 71:261-269, 2005)

Marchantia foliacea (liverwort) forms a symbiosis with arbuscular mycorrhizal fungi (Glomus) and can serve as a model to study DNA sequence variation and host specificity, report J. Russell at University of Canterbury, and S. Bulman at Crop and Food Research, Christchurch, New Zealand. (New Phytol. 165:567-579, 2005)

The movement protein of Apple chlorotic leaf spot virus bound preferentially to single-stranded RNA and single-stranded DNA without sequence specificity, report M. Isogai and N. Yoshikawa at Iwate University, Japan. (J. Gen. Virol. 86:225-229, 2005)