Focus

Compiled by Thor Kommedahl

A single virulence factor (tengu-su) induces witches'-broom and dwarfism in Nicotiana benthamiana and is a small, secreted protein in a phytoplasma report A. Hoshi and associates at University of Tokyo and Hosei University, Japan. (Proc. Natl. Acad. Sci. USA 106:6416-6421, 2009)

Bacterial leaf scorch is a new disease of blueberry caused by Xylella fastidiosa report C.-J. Chang and R. Donaldson at the University of Georgia. (HortScience 44:413-417, 2009)

Phytophthora spp. with excessive rainfall and droughts apparently account for beech decline and also beech bark disease in central Europe report T. Jung of the Phytophthora Research and Consultancy, Brannenburg, Germany. (For. Pathol. 39:73-94, 2009)

Acyrthosiphon pisum as a vector for Soybean dwarf virus is the most likely cause of loss in faba bean based on numbers trapped, efficient colonization, and severity of virus isolates transmitted report M. W. Schwinghamer and associates at Tamworth Agricultural Institute, Australia. (Australas. Plant Pathol. 38:262-269, 2009)

The quantitative trait locus resistance of soybean to Meloidogyne incognita is near the T-locus and can be used to introgress resistance into other genetic backgrounds without agronomic losses report Z. P. Shearin and associates at the University of Georgia. (Crop Sci. 49:467-472, 2009)

A selective transmission barrier in the midgut epithelial cell of Trialeurodes vaporariorum blocks entrance of Tomato yellow leaf curl virus into the midgut, resulting in incompetence as a vector, report J. Ohnishi and associates at the National Institute of Vegetable and Tea Science, Japan. (J. Gen. Plant Pathol. 75:131-139, 2009)

The tricarboxylic acid cycle enzyme Mqo is required for virulence of Pseudomonas syringae pv. tomato on arabidopsis report E. M. Mellgren and associates at Washington University, MO. (J. Bacteriol. 191:3132-3141, 2009)

Rice stripe virus protein NS3 is a suppressor of RNA silencing in Nicotiana benthamiana leaves report R. Xiong and associates at Zhejiang University and Jiangsu Academy Agricultural Sciences, China. (Virology 387:29-40, 2009)

The elicitin INF-1 induces resistance of tomato to bacterial wilt and activates jasmonic acid and ethylene-mediated signaling pathways with no hypersensitive responses report Y. Kawamura and associates at Tohoku University, Nagoya University, and the National Agricultural Research Center, Hokkaido, Japan. (J. Phytopathol. 157:287-297, 2009)

Triazoles controlled black spot of roses more effectively than strobilurins did because they were more systemic report E. W. Gachomo and associates at Rheinische Friedrich-Wilhelms Universität, Germany, and Rutgers University, NJ. (Ann. Appl. Biol. 154:259-267, 2009)

Genes for resistance of Gossypium hirsutum to Rotylenchulus reniformis can be introgressed and pyramided from G. arboreum and a bridging line report E. J. Sachs at USDA-ARS, Mississippi, and A. F. Robinson, USDA-ARS, Texas. (Field Crops Res. 112:1-6, 2009)

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