

Webster, R.K., Shaner, G., Van Alfen, N.K. (ed.): **Annual Review of Phytopathology. Volume. 40.** - Annual Reviews, Palo Alto 2002. 539 pp. Price print & online: individual USD 70.00 (USA), 75.00 (elsewhere); institutional 198.00 (USA), 203.00 (elsewhere). ISBN 0-8243-1340-2.

The introductory chapter "One foot in the furrow: Implications to One's Career in Plant Pathology" is written by D.E. Mathre. The review "Evolutionary ecology of plant diseases in natural ecosystems" (G.S. Gilbert) summarizes the effects of diseases on populations of wild plants, focusing on the mediation of plant competition and succession, the maintenance of plant species diversity, as well as the process of rapid evolutionary changes in host-pathogen symbioses. G.P. Pogue *et al.* in "Making an ally from an enemy: Plant virology and the new agriculture" discuss the development and use of viruses as expression vectors and their use in large-scale agricultural settings to produce recombinant proteins. The retrospective historical review "Stripe rust of wheat and barley in North America" by R.F. Line deals with the sequence of events and research progress on control of stripe rust of wheat and barley in North America. Knowledge of the integration of sequences of various DNA plant viruses into the host genome is indicated in review of G. Harper *et al.* "Viral sequences integrated into plant genomes". The review "Comparative genomic analysis of plant-associated bacteria" (M.A. Van Sluys *et al.*) deals with a comparative analysis of seven genome sequences from plant-associated bacteria (*Agrobacterium tumefaciens*, *Mesorhizobium loti*, *Sinorhizobium meliloti*, *Xanthomonas campestris* pv *campestris*, *Xanthomonas axonopodis* pv *citri*, *Xylella fastidiosa*, and *Ralstonia*

solanacearum). The readers of *Biologia Plantarum* will be also interested in the reviews "Molecular basis of recognition between *Phytophthora* pathogens and their hosts" (B.M. Tyler), "Gene expression in nematode feeding sites" (G. Gheysen, C. Fenoll), "Phytochemical based strategies for nematode control" (D.J. Chitwood), "Host-selective toxins and avirulence determinants: What's in a Name?" (T.J. Wolpert *et al.*), "Tobacco mosaic virus assembly and disassembly: Determinants in Pathogenicity and Resistance" (J.N. Culver), "Microbial populations responsible for specific soil suppressiveness to plant pathogens" (D.M. Weller *et al.*), "Pathogen population genetics, evolutionary potential, and durable resistance" (B.A. McDonald, C. Linde), "Use of multiline cultivars and cultivar mixtures for disease management" (C.C. Mundt), "Biological control of postharvest diseases of fruits" (W.J. Janisiewicz, L Korsten), "Antibiotic use in plant agriculture" (P.S. McManus, *et al.*), and "Risk assessment of virus-resistant transgenic plants" (M. Tepfer).

This book represents a valuable source of up to date information on diverse fields of phytopathology and mechanisms involved in plant-pathogen communication and is very useful for scientists and students interested in this field. The book is equipped with detailed "Subject index". In addition, the "Cumulative index of contributing authors" and "Cumulative index of chapter titles" (Volumes 31 - 40) is included.

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