

Van Alfen, N.K., Bruening, G., Dawson, W.O. (ed.): **Annual Review of Phytopathology - Vol. 43** - Annual Reviews, Palo Alto 2005. 694 pp. Print & online individual price USD 84.00, institutional price USD 225.00. ISBN 0-8243-1343-7.

This is a new volume of the well known series that traditionally gives an overview of various fields of phytopathology. The book as usual contains two introductory articles devoted to the life, scientific and research experience of outstanding celebrities (R.K. Webster and K.F. Baker) of plant pathology and 22 specialised reviews.

Considerable part of articles discusses recent findings of different mechanisms associated with plant-pathogen-vector interactions comprising up-to-date knowledge of cellular and biochemical events, plant defence signalling as well as the involvement of specific genes in plant resistance: "Contrasting mechanisms of defense against biotrophic and necrotrophic pathogens" (J. Glazebrook), "Lipids, lipases, and lipid-modifying enzymes in plant disease resistance" (J. Shah), "Resistance of cotton towards *Xanthomonas campestris* pv. *malvacearum*" (E. Delannoy *et al.*), "Plant pathology and RNAi: a brief history" (J.A. Lindbo, W.G. Dougherty), "RNA silencing in productive virus infections" (R. MacDiarmid), "Signal crosstalk and induced resistance: straddling the line between cost and benefit" (R.M. Bostock), "Genetics of plant virus resistance" (B.-C. Kang *et al.*), "Hemipterans as plant pathogens" (I. Kaloshian *et al.*), "Molecular interactions between tomato and the leaf mold pathogen *Cladosporium fulvum*" (S. Rivas, C.M. Thomas), "Viroids and viroid-host interactions" (R. Flores *et al.*).

Special attention to virus life cycle is devoted to alfamo- and ilarviruses by J.F. Bol in review "Replication of alfamo- and ilarviruses: role of the coat protein", to ecology, pathology and taxonomy of rhabdoviruses by

O. Jackson *et al.* in "Biology of plant rhabdoviruses" and to evolution of geminiviruses M.R. Rojas, *et al.* in article "Exploiting chinks in the plant's armor: evolution and emergence of geminiviruses".

The article "Pathogen testing and certification of *Vitis* and *Prunus* species" (A. Rowhani *et al.*) is focused on assay methods in sanitation programs to exclude virus and virus-like diseases and to identify healthy source plants of the genera *Vitis* and *Prunus*.

The readers of *Biologia Plantarum* will be also interested in the reviews "Plant disease: a threat to global food security" (R.N. Strange, P.R. Scott), "Principles of plant health management for ornamental plants" (M.L. Daughtrey, D.M. Benson), "The biology of *Phytophthora infestans* at its center of origin" (N.J. Grünwald, W.G. Flier), "Mechanisms of fungal speciation" (L.M. Kohn), "*Phytophthora ramorum*: integrative research and management of an emerging pathogen in California and Oregon forests" (D.M. Rizzo *et al.*), "Commercialization and implementation of biocontrol" (D.R. Fravel), "Regulation of secondary metabolism in filamentous fungi" (J.-H. Yu, N. Keller), "Tospovirus-thrips interactions" A.E. Whitfield *et al.*

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 both for the scientists and students interested in this field. The news is that much more colour pages of excellent quality accompany the papers facilitating perception of presented data. The book is also equipped with detailed "Subject index".

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