

## Book Review

R. KENNETH HORST and RAYMOND A. CLOYD

### Compendium of rose diseases and pests. 2nd edition

American Phytopathological Society, St. Paul, Minnesota, USA, 2007, VII + 83 p., 153 colour photographs, 17 black-and-white illustrations – ISBN: 978-0-89054-355-9, price \$ 59.00. The book is available in library of the Czech Scientific Society for Mycology.

The Disease Compendium Series of the American Phytopathological Society started in 1983 with the Compendium of rose diseases. Currently, the series represents 40 titles. About half of them were published repeatedly (13 in second, 2 in third and 1 in fourth editions). The series represents practical guidebooks for diagnosing and managing diseases of cultivated plants.

The second edition of the Compendium of rose diseases and pests has been revised, updated and expanded. It consists of an introduction, parts dealing with infectious diseases, non-infectious diseases, and insects and mite pests of rose. The Compendium is completed with an appendix (common names of diseases and pests), a glossary explaining the used abbreviations and terms, and an index. Mostly colour photographs illustrating symptoms are set in the text. Selected references are provided throughout.

The introduction refers to the genus *Rosa*, especially to its origin and the classification of cultivated roses, and to their maintenance and production practices. General characteristics of organisms causing rose diseases as well as non-infectious disorders are given in this part of book. The main principles of disease and pest management are also mentioned. It is regrettable that no attention has been paid to wild-growing species of *Rosa*, a potential source of inoculum and pests.

The first part of the Compendium covers infectious diseases. Detailed characteristics of symptoms, causal organisms, disease cycles, epidemiology and management are given for diseases caused by fungi (incl. Oomycetes), bacteria, and viruses. The main fungal diseases caused by *Podospheera pannosa*, *Diplocarpon rosae*, *Phragmidium* sp. div., *Verticillium* sp. div., *Peronospora sparsa*, and *Botrytis cinerea* are completed with species of fungi that cause cankers, leaf spots, wilt and other diseases of roses. The microphotograph in Fig. 35 C, which does not represent conidia of *Coniothyrium wernsdorffiae*, is inadequate here.

Bacterial diseases caused by *Agrobacterium tumefaciens* and *A. rhizogenes* are followed by eleven diseases caused by a range of viruses belonging to taxa of *Ilarvirus* and *Nepovirus*. Roses are attacked also by numerous species of nematodes listed in this part.

The second part treats non-infectious diseases and disorders as consequences of physiological problems, environmental imbalances, air pollution, pesticide toxicity, nutritional deficiencies and toxicities. Colour photographs may help to distinguish non-infectious diseases from fungal, bacterial, viral, and nematode symptoms.

The third part includes information on insects and mites with 68 colour images to help identify these pests and the damages they cause. Nevertheless, some images seem to be superfluous (e. g. Figs. 114, 115, 133, 140, 154, 156, and 165).

This valuable reference book will serve not only plant protection specialists and rose growers but also researchers, teachers, and students.

*Jaroslava Marková*