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Nota di contenuto	Contents; Contributors; About the Editor; Preface; PART I: HISTORY OF RESISTANCE DEVELOPMENT; 1 Historical Perspectives of Fungicide Resistance; PART II: STATUS, DETECTION AND MANAGEMENT OF RESISTANCE; 2 Resistance in Venturia nashicola to Benzimidazoles and Sterol Demethylation Inhibitors; 3 Fungicide Resistance in Erysiphe necator - Monitoring, Detection and Management Strategies; 4 Fungicide Resistance in Pseudoperonospora cubensis, the Causal Pathogen of Cucurbit Downy Mildew; 5 Resistance to Azole Fungicides in Mycosphaerella graminicola: Mechanisms and Management 6 The Role of Intraspecific Parallel Genetic Adaptation to Qols in Europe7 Risk and Management of Fungicide Resistance in the Asian Soybean Rust Fungus Phakopsora pachyrhizi; 8 Resistance to Carboxylic Acid Amide (CAA) Fungicides and Anti-Resistance Strategies; 9 New Modes of Action Contribute to Resistance Management; 10 Field Kit- and Internet-Supported Fungicide Resistance Monitoring; 11 Fungicide Resistance in Oomycetes with Special Reference to Phytophthora infestans and Phenylamides; 12 Resistance Risk to Qol Fungicides and Anti-Resistance Strategies

PART III: RESISTANCE CASES IN DIFFERENT COUNTRIES13 Fungicide Resistance in *Plasmopara viticola* in France and Anti-Resistance Measures; 14 QoI Resistance in *Plasmopara viticola* in Italy: Evolution and Management Strategies; 15 Fungicide Resistance in Italian Agriculture and Strategies for its Management; 16 Challenge of Fungicide Resistance and Anti-Resistance Strategies in Managing Vegetable Diseases in the USA; 17 Fungicide Resistance in India: Status and Management Strategies; 18 Resistance to QoI and SDHI Fungicides in Japan; PART IV: GENETICS AND MULTI-DRUG RESISTANCE 19 Genetics of Fungicide Resistance in *Botryotinia fuckeliana* (*Botrytis cinerea*)20 Emergence of Multi-Drug Resistance in Fungal Pathogens: A Potential Threat to Fungicide Performance in Agriculture; PART V: ROLE OF FRAC; 21 The Role of the Fungicide Resistance Action Committee in Managing Resistance; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; O; P; Q; R; S; T; U; V; W; Z

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Sommario/riassunto

Pathogen resistance to fungicides has become a challenging problem in the managing of crop diseases and has threatened the performance of some highly potent commercial fungicides. Worldwide, resistance to more than one hundred different active ingredients has been reported. This book compiles information on fungicide resistance over the past three decades on the status, development, and processes involved in the build-up of resistance in pathogens to different groups of fungicides, while also suggesting various measures for managing this problem.

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