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Nota di contenuto	Cover; Title Page; Copyright; Contributors; Foreword; References; Preface; Section 1: Plant Immune Response Pathways; 1: Innate Immunity: Pattern Recognition in Plants; 1.1 Pattern Recognition through MAMPs (Microbe-Associated Molecular Patterns); 1.2 Some Classical MAMP-Receptor Pairs; 1.3 Physiological Responses and Signaling Events Induced by Elicitors; 1.4 The Biological Relevance of PTI; References; 2: Microbial Effectors and Their Role in Plant Defense Suppression; 2.1 The Gene-for-Gene Concept and the Emergence of Effectors; 2.2 Diversity of Effectors; 2.3 Effector Targets 2.4 Models to Explain Recognition of Effectors by R-gene Products2.5 Synthesis and Discussion; References; Section 2: Genome-Wide Analyses of Microbial Effectors and Effector Evolution; 3: Comparative Genomics and Evolution of Bacterial Type III Effectors; 3.1 Introduction; 3.2 Effector Structure; 3.3 Effector Acquisition; 3.4 Effector Change and Loss; 3.5 Effector Repertoire Evolution; 3.6 Future Prospects; References; 4: The Effectors of Smut Fungi; 4.1 Introduction; 4.2 Plant Responses to U. maydis; 4.3 The effectors of U. maydis; 4.4 Regulation of U. maydis Effector Genes

4.5 Stage and Organ Specificity of *U. maydis* Effectors 4.6 The Effectors of Smut Fungi Related to *U. maydis*; 4.7 Outlook; 4.8 Acknowledgements; References; 5: Evolutionary and Functional Dynamics of Oomycete Effector Genes; 5.1 Introduction; 5.2 Oomycete Effectors Target Different Sites in Host Plant Tissue; 5.3 Oomycete Effectors have a Modular Architecture; 5.4 Oomycete Effector Genes Show Distinct Patterns of Expression During Plant Colonization; 5.5 Effector Genes Populate Plastic Regions of Oomycete Genomes; 5.6 Evolution of *P. infestans* Genome and Effector Genes Following Host Jumps 5.7 Several Oomycete Effectors Suppress Plant Immunity 5.8 Effectors Are Useful in Breeding and Deployment of Disease Resistance; 5.9 Outlook; References; Section 3: Microbial Effector Functions: Virulence and Avirulence; 6: Suppression and Activation of the Plant Immune System by *Pseudomonas syringae* Effectors AvrPto and AvrPtoB; 6.1 *Pseudomonas syringae* pv. tomato Interactions with Plants; 6.2 AvrPto and AvrPtoB Have Both Redundant and Unique Activities in Plants; 6.3 AvrPto is a Small Effector with Two PTI-Suppressing Domains Both of Which Can Activate ETI in Certain Solanaceous Plants 6.4 AvrPtoB is a Large Modular Effector with Domains that Suppress PTI and ETI but Which Also Activate ETI in Certain Tomato Genotypes 6.5 AvrPtoB Virulence Activity; 6.6 An Evolutionary Model of the Tomato-*Pseudomonas* Interaction; 6.7 Summary; 6.8 Acknowledgments; References; 7: Rust Effectors; 7.1 General Introduction to Rusts; 7.2 Identification of Effectors in Bean Rust and Flax Rust as Haustorial Secreted Proteins; 7.3 Genome-Wide Effector Prediction in the Poplar Rust and Wheat Stem Rust Genomes; 7.4 Comparative Genomics of Effectors; 7.5 Function of Rust Effectors; 7.6 Conclusions References

Sommario/riassunto

Plants and microbes interact in a complex relationship that can have both harmful and beneficial impacts on both plant and microbial communities. Effectors, secreted microbial molecules that alter plant processes and facilitate colonization, are central to understanding the complicated interplay between plants and microbes. Effectors in Plant-Microbe Interactions unlocks the molecular basis of this important class of microbial molecules and describes their diverse and complex interactions with host plants. Effectors in Plant Microbe Interactions is divided into five sections t

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Nota di contenuto	My Gettysburg address: "a little lot of stars" -- East of Gettysburg: York County, Pennsylvania, during the invasion of 1863 -- Union lifeline: the Army of the Potomac's logisticians in the Gettysburg Campaign -- (West) Virginians in the Gettysburg Campaign -- "A hell of a damned fool": Judson Kilpatrick, Farnsworth's Charge, and the hard hand of history -- Music inspired by the Battle of Gettysburg, 1863-1913 -- Cadet gray, khaki and camouflage: the US Army and Gettysburg, post-1863 -- The history of Civil War re-enacting: a personal recollection -- Epilogue: casinos and other entertainments.