Record Nr. UNINA9910446326803321 Molecular plant-microbe interactions / / edited by Kamal Bouarab, **Titolo** Normand Brisson and Fouad Daayf Pubbl/distr/stampa Cambridge, MA,: CABI North American Office, 2009 **ISBN** 1-282-38751-0 9786612387517 1-84593-575-6 Edizione [1st ed.] Descrizione fisica 1 online resource (354 p.) Altri autori (Persone) **BouarabKamal** BrissonNormand <1955-> DaayfFouad Disciplina 632/.3 Soggetti Plants - Disease and pest resistance Plant-microbe relationships Fungal diseases of plants Virus diseases of plants Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Contents; Contributors; Preface; 1 Plant RNA-silencing Immunity and Viral Counter-defence Strategies; 2 Mitogen-activated Protein Kinase Cascades in Plant Defence Responses; 3 Molecular Mechanisms of the Radical Burst in Plant Immunity; 4 Disease Resistance in Arabidopsis, Starring TGA2 and also Featuring NPR1; 5 Disease Resistance Genes: Form and Function; 6 Transcription Factor Families Involved in Plant Defence: from Discovery to Structure; 7 Cross Talk Between Induced Plant Immune Systems: 8 The Needle and the Damage Done: Type III Effectors and the Plant Immune Response 9 Virulence Determinants and the Global Regulation of Virulence in Xanthomonas campestris10 Suppression of Induced Plant Defence Responses by Fungal and Oomycete Pathogens; 11 Sustainable Agriculture and the Multigenomic Model: How Advances in the Genetics of Arbuscular Mycorrhizal Fungi will Change Soil Management Practices; 12 Microbial Traits Associated with Actinobacteria Interacting with

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Sommario/riassunto

There have been major developments in the field of plant-microbe interactions. This book explores these discoveries, focusing on the mechanisms controlling plant disease resistance, the cross-talk among the pathways involved and the strategies used by the pathogens to suppress these defences.