
Description: This book offers a collection of information on successive steps of molecular 'dialogue' between plants and pathogens. It additionally presents data that reflects intrinsic logic of plant-parasite interactions. New findings discussed include: host and non-host resistance, specific and nonspecific elicitors, elicitors and suppressors, and plant and animal immunity. This book enables the reader to understand how to promote or prevent disease development, and allows them to systematize their own ideas of plant-pathogen interactions.

Offers a more extensive scope of the problem as compared to other books in the market

Presents data to allow consideration of host-parasite relationships in dynamics and reveals interrelations between pathogenicity and resistance factors

Discusses beneficial plant-microbe interactions and practical aspects of molecular investigations of plant-parasite relationships

Compares historical study of common and specific features of plant immunity with animal immunity

Contents:

Chapter 1 General information on parasitism

Chapter 2 Plant parasite organisms
  2a Fungal Plant Pathogens
  2b Bacterial Plant Pathogens
  2c Plant Viruses and Viral Plant Diseases
  2d. Plant Pathogen Nematodes
  2e. Methods of Diagnostics

Chapter 3 Structural basis of plant-pathogen Interactions

Chapter 4 Phenomenology of Plant-Pathogen Relationships

Chapter 5 Horizontal Pathosystem: Parasite Attack Factors
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  6b Regulation of Ontogenesis and Damage Reparation
  6c Nutrient Values of Infected Organs and Tissues
  6d Biochemical Resistance Factors
  6e Chemical classification of Phytoanticipates
  6f Resistance Strategies
  6g Protein Inhibitors of Viruses

Chapter 7 Vertical Pathosystem: Avirulence Genes and their Products: Molecular Interpretation of Genetic Data
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  7b. Nonspecific Biogenic Elicitors
  7c. Endogenous, Plant, or Secondary Elicitors
  7d. Specific Elicitors

Chapter 8 Vertical Pathosystem: Resistance Genes and their Products. Signal Transduction
  8a. Resistance Genes and Susceptible Genes
  8b. Investigation of Resistance genes by the Methods of Classical Genetics
  8c. Molecular Genetics Studies
  8d. Signal Transduction
  Signaling Systems
  8e. G-Proteins
  8f. Cycloadenilate Signaling Systems
8g. MAP-Kinase Signaling Systems
8h. Ca-Phosphatase Signaling Systems
8i. Lyooxygenase s.s.
8j. NADPH-oxidase (Superoxyde) s.s.
8k. NO-synthase s.s.
8l. Signaling Genetics
8m. Interactions of the Signaling Systems Inducing by Nonspecific and Specific Elicitors

Chapter 9. Hypersensitivity

Chapter 10. Immune Response
10a. Phytoalexins
10b. PR-Proteins
10c. Antiviral Proteins
10d. Proteinase Inhibitors
10e. Phenylpropanoids and Lignin
10f. Hydroxyprolin Reach Glicoproteins
10g. SAR

Chapter 11. Gene Silencing
RNA silencing as a general defense mechanism against pathogen

Chapter 12. Virulence Genes and their Products Suppressors (Impedines)
12a. Pathotoxins
12b. Enzymes

Chapter 13. General and Specific Aspects in Plant and Animal Immunity

Chapter 14. Molecular Basis of Plant Immunizations

Chapter 15. Development of Transgenic Plants Resistant to Diseases

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