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Titolo	Compendium of Phytopathogenic Microbes in Agro-Ecology : Vol. 3, Bacteria, Protozoa, Algae and Nematodes / / edited by Natarajan Amaresan, Krishna Kumar
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ISBN	3-031-81999-3
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XII, 701 p. 99 illus., 85 illus. in color.)
Collana	Biomedical and Life Sciences Series
Disciplina	571.92
Soggetti	Plant diseases Agriculture Botany Plant Pathology Plant Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Plant diseases caused by bacteria -- Chapter 1. Acidovorax -- Chapter 2. Burkholderia -- Chapter 3. Dickeya -- Chapter 4. Leifsonia -- Chapter 5. Liberibacter -- Chapter 6. Pectobacterium -- Chapter 7. Phytoplasma -- Chapter 8. Pseudomonas -- Chapter 9. Ralstonia -- Chapter 10. Rickettsia -- Chapter 11. Spiroplasma -- Chapter 12. Streptomyces -- Chapter 13. Xanthomonas -- Chapter 14. Xylella -- Chapter 15. Xylophilus -- Part 2. Plant diseases caused by nematodes -- Chapter 16. Anguina -- Chapter 17. Aphelenchoides -- Chapter 18. Belonolaimus -- Chapter 19. Bursaphelenchus -- Chapter 20. Ditylenchus -- Chapter 21. Globodera -- Chapter 22. Helicotylenchus -- Chapter 23. Heterodera -- Chapter 24. Hirschmanniella -- Chapter 25. Meloidogyne -- Chapter 26. Nacobbus -- Chapter 27. Pratylenchus -- Chapter 28. Radopholus -- Chapter 29. Rotylenchulus -- Chapter 30. Trichodorus and Paratrichodorus -- Chapter 31. Tylenchulus -- Part 3. Plant diseases caused by protozoa -- Chapter 32. Phytomona -- Chapter 33. Plasmodiophora -- Chapter 34. Spongospora -- Part 4. Plant diseases caused by algae -- Chapter 35. Trentepohlia.
Sommario/riassunto	This book offers an in-depth exploration of phytopathogenic bacteria,

nematodes, protozoa, and algae within the context of agroecology. Each chapter meticulously details the introduction, taxonomy, and diseases caused by these pathogens, alongside their pathogenic mechanisms, economic significance, and strategies for identification and control. By providing comprehensive insights into these topics, the book empowers researchers to manipulate these pathogens to suit their needs. Key concepts covered include the economic impact of plant pathogens on yield loss, the pathogenic cycles of various microbes, and effective control measures. The book's expert contributors present a thorough analysis of 104 plant pathogens, organized into distinct microbial groups. This volume is an essential resource for understanding the complex interactions between pathogens and their host plants, offering valuable knowledge for developing sustainable agricultural practices. This book is an indispensable resource for postgraduate students, research scholars, post-doctoral fellows, and educators in fields such as Plant Microbiology, Plant Pathology, Bacteriology, Protozoology, Algology, and Nematology. As the second volume in a comprehensive three-volume compendium, it provides critical insights into the economic importance of pathogens and their role in yield loss, making it a must-have for anyone involved in plant sciences.