

1. Record Nr.	UNINA9910999668903321
Titolo	Compendium of Phytopathogenic Microbes in Agro-Ecology : Vol. 2 Viruses and Viroids // edited by Natarajan Amaesan, Krishna Kumar
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-81884-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XII, 484 p. 50 illus., 43 illus. in color.)
Collana	Biomedical and Life Sciences Series
Disciplina	571.92
Soggetti	Plant diseases Botany Agriculture Plant Pathology Plant Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Abaca bunchy top virus -- Chapter 2. African cassava mosaic virus -- Chapter 3. Alfamovirus (Alfalfa mosaic virus) -- Chapter 4. Banana bract mosaic virus -- Chapter 5. Barley yellow dwarf virus -- Chapter 6. Beet pseudoyellows virus -- Chapter 7. Brome mosaic virus -- Chapter 8. Capsicum chlorosis virus -- Chapter 9. Cauliflower mosaic virus -- Chapter 10. Celery mosaic virus -- Chapter 11. Cucumber mosaic virus -- Chapter 12. Iris yellow spot orthospovirus -- Chapter 13. Johnson grass mosaic virus -- Chapter 14. Lettuce necrotic yellow virus -- Chapter 15. Pea enation mosaic virus -- Chapter 16. Pepper mild mottle virus -- Chapter 17. Potato leafroll virus -- Chapter 18. Rice dwarf virus -- Chapter 19. Rice tungro virus -- Chapter 20. Tobacco mosaic virus -- Chapter 21. Tomato mosaic virus -- Chapter 22. Tomato spotted wilt virus -- Chapter 23. Turnip mosaic virus -- Chapter 24. Watermelon mosaic virus -- Chapter 25. Zucchini yellow mosaic virus -- Chapter 26. Chrysanthemum stunt viroid -- Chapter 27. Citrus exocortis viroid -- Chapter 28. Hop latent viroid -- Chapter 29. Potato spindle tuber viroid.
Sommario/riassunto	This book offers an in-depth exploration of phytopathogenic viruses

and viroids 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. The chapters investigate key concepts such as pathogen taxonomy, disease cycles, and control measures, addressing critical questions about their economic impact on crop yield. 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 practical solutions for disease management. This book is an invaluable resource for postgraduate students, research scholars, post-doctoral fellows, and educators across disciplines such as Plant Microbiology, Plant Pathology, Entomology, Virology, and Nematology. As the second volume in a comprehensive three-part series, it provides crucial insights into the economic importance of bacteria, fungi, viruses, viroids, and nematodes. This compendium is a must-have for anyone seeking to deepen their understanding of plant pathogens and their impact on agriculture.

---