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Titolo	Diseases in Legume Crops : Next Generation Breeding Approaches for Resistant Legume Crops / / edited by Uday Chand Jha, Harsh Nayyar, Kamal Dev Sharma, Eric J Bishop von Wettberg, Prashant Singh, Kadambot H.M Siddique
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Descrizione fisica	1 online resource (347 pages)
Altri autori (Persone)	NayyarHarsh SharmaKamal Dev von WettbergEric J. Bishop SinghPrashant SiddiqueKadambot H. M
Disciplina	630
Soggetti	Agriculture Agricultural biotechnology Agricultural genome mapping Plant diseases Agricultural Biotechnology Agricultural Genetics Plant Pathology
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Nota di contenuto	Chapter 1. Chickpea diseases: Breeding and 'omics' approaches for designing next-generation disease-resistant chickpea cultivar Chapter 2. Ascochyta blight of chickpea- A menace to be managed by resistance breeding Chapter 3. Fusarium wilt of chickpea: Breeding and Genomics approaches for designing wilt resistant chickpea Chapter 4. Dry root rot in chickpea: a perspective on disease resistance breeding strategies Chapter 5. An overview of major Bean diseases and current scenario of Common Bean Resistance Chapter 6. Diseases in cowpea (Vigna unguiculata (L.) Walp): Next generation breeding techniques for developing disease resistant cowpea

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	Chapter 7. Biotic stress resistance in Vigna mungo and Vigna radiata: A Molecular perspective Chapter 8. Disease resistance an essential for better adaptability and production of faba bean in India (Vicia faba L.) Chapter 9. Next generation crop breeding approaches for improving disease resistance in groundnut (Arachis hypogaea L.) Chapter 10. Disease resistance breeding in Lathyrus sativus L Chapter 11. Understanding fungal diseases and their mitigation in lentils Chapter 12. Biotic stresses in multipurpose legume: rice bean Chapter 13. Genomic approaches for resistance against fungal diseases in soybean Chapter 14. Disease resistance and Seed production in two common New England Grain Legumes.
Sommario/riassunto	The edited book covers all major and minor diseases in grain legumes (chickpea, pigeon pea, lentil, mung bean, common bean, groundnut, and soybean) and forages legumes (including Medicago, rice bean, and faba bean) and their control measures by using various breeding approaches. Grain legumes are versatile nutritionally rich crops, and are one of the important components of global food security. However, grain legumes are severely challenged by various major and emerging minor diseases causing serious limitations in grain yield and production. Thus, to minimize the negative impact of the growing yield loss caused by these diseases, several approaches have been developed and embraced. This book covers all the latest development in genetics, breeding, genomics, and molecular biology tools for combating various major and minor emerging diseases in all the grain legumes from expert authors. Chapters in this title contain all the relevant illustrations and statistical data detailing the present scenario and identifying the gap for meeting the future demand for sustaining global protein security by developing disease-resistant cultivars. This book is of interest to graduate and postgraduate students, researchers, and policymakers to understand the impacts of various diseases on yield loss in legume crops