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borne Alternaria helianthi leaf blight in Sunflower -- Chapter 16: Interspecific hybridization among Vigna mungo (L.) Hepper (Black gram) and wild Vigna species -- Chapter 17: Technological advances in Agronomic practices of seed processing, storage, and pest management-an update -- Chapter 18: Natural products for the alternative seeds treatment -- Chapter 19: Advances in big data analytics and applications to seed technology -- Chapter 20: Seed micro-morphological characteristics in local landraces of finger millet (Eleusine coracana (L.) Gaertn.) -- Chapter 21: Seed Storage and Longevity: MECHANISM, TYPES AND MANAGEMENT -- Chapter22: Modeling seed germination response to salinity at different accelerated ageing period in canola -- Chapter 23: Methods of seed enhancement -- Chapter 24: Seed biotechnology for improvement of staple crops -- Chapter 25: PRODUCTION OF HEALTHY CANE SEEDLINGS IN THE BRAZILIAN NORTHEAST -- Chapter 26: Improvement of seed quality; a 1 Biotechnological approach -- Chapter 27: Organic packages for Seed Production -- Chapter 28: EFFECTS OF PROHEXADIONE-CALCIUM APPLICATION ON VEGETATIVE AND GENERATIVE GROWTH OF PEPPER PLANTS -- Chapter 29: BEAN COMMON MOSAIC VIRUS TRANSMISSION BY BEAN SEED cv CHERVONA SHAPOCHKA -- Chapter 30: SEED BIOLOGY -- Chapter 31: SEED BORNE DISEASES AND ITS MANAGEMENT.

Sommario/riassunto

High-quality seed is essential for healthy crops and greater agricultural productivity. At the same time, advances in breeding technology require equivalent advances in seed technology. In order to ensure food security, it is crucial to develop seeds that are high yielding, and resistant to drought, heat, cold, and insects. Gathering the latest research in seed sciences, the book includes contributions on seed production in crops such as legumes, sugar, rice, wheat and other cereals. It discusses a range of topics, like the effect of climate change on seed quality, production and storage; seed rouging; seed certification for different crop species; seed biology; and seed pathologies and their effective management. Integrating basic and applied research, this compendium provides valuable insights for researchers and students in agricultural and life sciences; professionals involved in seed certification and those working in quarantine laboratories; as well as plant pathologists. .