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	Nota di contenuto	1. Empowering Food Security through Indigenous Biodiversity Management -- 2.Synergies of Traditional Ecological Knowledge in

Biodiversity Conservation: A Paradigm for Sustainable Food Security -- 3. Crop wild relatives (CWRs) and their potential role in improvement of horticultural crops -- 4. Utilization of crop wild relatives in vegetable breeding programs could enhance crop adaptation to challenging environments -- 5. Overview of Land Use and Land Cover Change and its Impacts on Natural Resources -- 6. Indigenous Knowledge of Food Preservation: Ensuring Food Security of Tribal and Rural India -- 7. Agrarian Sector Labour and Human Capital, India -- 8. LBotanical, phytochemical and nutritional study of wild edible liana (*Leptadenia hastata* (Pers.) Decne.) in peri urban agroforestry systems improving food security in Niger -- 9. Trade-offs and Synergies in Biodiversity Conservation and Food Security -- 10. Policy Innovation and Governance for Sustainable Food Systems -- 11. Bolstering Farming Households' Livelihood And Nourishing Futures: Resilience In The Face of Pandemics and Natural Calamities -- 12. Land use Impact on Soil Micronutrients in Afaka Forest Reserve, Northern Guinea Savannah, Kaduna State Nigerian -- 13. Climate Change in Agriculture: Impacts, Adaptation and Mitigation -- 14. Innovative Agricultural Solutions for Climate Change Mitigation and Adaptation -- 15. Building Resilient Farms: Tackling Climate Change through Mitigation and Adaptation -- 16. Resilient Farming: Adapting Agricultural Practices for Climate Change -- 17. Resilience of Robust Agroforestry Ecosystems -- 18. Revitalizing Dryland Soils: Strategies for Sustainable Management -- 19. Navigating the Future: Climate Change Impacts, Mitigation Strategies, and Adaptation Pathways in Agriculture -- 20. Rhizosphere Interactions In Relation To Resilience of Agroforestry System -- 21. Harnessing AI and Machine Learning for Effective Pest and Disease Control -- 22. Optimizing Crop Health with AI and Machine Learning Technologies -- 23. Leveraging AI and ML in Precision Farming for Pest and Disease Management: Benefits, Challenges, and Future Prospects -- 24. Leveraging remote sensing and GIS to make evidence-based decisions on scaling farmer-managed natural regeneration in Niger -- 25. Nanomaterial Interactions with Plant: Role in food security and biodiversity conservation -- 26. Nanotechnology in Agriculture: Opportunities and Risks for Human Health -- 27. Speed Breeding: A 'Paradigm Shift' in Crop Improvement.

Sommario/riassunto

This edited volume addresses the critical need to balance biodiversity preservation with ensuring a nutritious and ample food supply for the growing global population. It emphasizes how conserving biodiversity enhances agricultural resilience, promotes sustainable food production, and safeguards food security for present and future generations. The book explores the complex interdependence between biodiversity and food security, identifying both challenges and threats, presenting solutions and strategies, and examining the roles of policies, governance, regulations, and international agreements. It highlights the importance of fostering research and raising awareness to promote sustainable agricultural practices, biodiversity conservation, and equitable resource access essential for long-term food security. The book includes real-world case studies and examples from different regions to demonstrate successful initiatives and the impact of biodiversity conservation on local food systems. This book provides a platform for researchers, conservationists, and policymakers to exchange knowledge and ideas on integrating biodiversity conservation into food security initiatives. It is a compilation of information by the experts and will be useful for researchers in the fields of botany, agriculture, nutrition, policy making and biotechnology.