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Nota di contenuto	Section I General -- Chapter 1: Introduction to agro-biodiversity and agri-ecosystem in the 21st century -- Section II Agro Biodiversity Conservation and Challenges -- Chapter 2: An Assessment of Forest Diversity: Challenges and Management -- Chapter 3: Agrobiodiversity, Status, and Conservation Strategies -- Chapter 4: Role of Range grasses in conservation and restoration of biodiversity -- Chapter 5: Molecular approaches in Agro Biodiversity Conservation -- Section III Agri Ecosystem Services and Climate Resilience -- Chapter 6: Carbon Sequestration Potential in Agricultural Systems -- Chapter 7: Inter-Connectivity between Climate Resilience, Climate Change and Adaptability -- Chapter 8: Soil organic carbon and total nitrogen stocks under different land uses in Achanakmaar Amarkantak Biosphere Reserve, India -- Chapter 9: Vegetation Biomass and Carbon Stock Assessment under Different Forest Types of Temperate and Alpine Forest Ecosystem of Western Himalayas -- Section IV Advance Approaches for Agrobiodiversity Conservation and Restoration -- Chapter 10: Molecular approaches in conservation and restoration of agro-biodiversity -- Chapter 11: Adapting Land Degradation and

Enhancing Ethnic Livelihood Security through Fruit Production: Evidence from Hilly Areas of Bangladesh -- Chapter 12: Restoration and Conservation of Plant Genetic Resources via Molecular Techniques: An Important Measure for Sustainable Agriculture -- Chapter 13: Molecular Approaches in Restoration of Agrobiodiversity -- Chapter 14: Genomics Approaches for Restoration and Conservation of Agro-biodiversity -- Section V Technological Intervention for Agricultural Development -- Chapter 15: Polyhydroxyalkanoates Production in Transgenic Plants: Green Plastics for Better Future & Environmental Sustainability -- Chapter 16: Application of artificial intelligence for the development of sustainable agriculture -- Chapter 17: Information and technology use in agriculture and Livestock development -- Chapter 18: Use of wild edible plants can meet the needs of future generation.

Sommario/riassunto

This edited book collates latest findings in the field of agro-biodiversity and agri-ecosystem management across the globe through selected case studies. The primary aim of the book is to cover agro-biodiversity and agri-ecosystem advancements in the field of agricultural resource management. The book explores a range of technologies that support sustainable use of resources and facilities, such as Natural Resource Management (NRM), Resource Conservation Technologies (RCTs), Integrated Farming System (IFS), Integrated Crop Management (ICM), Integrated Nutrient Management (INM), use of solar energy, promotion of agro-ecological zone specific agricultural production, application of climate resilient technologies, secondary agricultural practices and post-harvest technologies. Agro-biodiversity and agri-ecosystem not only contributes to overall growth of the economy but also reduces poverty by providing employment and food security to the majority of the population in the continent and thus it is the most inclusive growth sectors of the economy of Asian and African countries. The book is relevant for researchers and policy makes in the field of agriculture, food system research, ecology, agricultural diversification, resource management etc.