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Altri autori (Persone)	Sobti
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Soggetti	Ecology Well-being Biology Biotechnology Environmental Sciences Well-Being Biological Sciences
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Nota di contenuto	Synergizing Science and Technology for Sustainable Development -- Sustainable Uses of Forest Bioresources -- Conservation of Aquatic Flora for Sustainable Development -- Commercial Sericulture for Sustainable Development -- Role of Global Aquaculture in Sustainable Development -- Biodiversity and Classification -- Fisheries for Maintaining a Sustainable Planet -- Insect Biotechnology and Bioresources -- Ethical Considerations in Biology.
Sommario/riassunto	The book delves into the field of biotechnology and its crucial role in achieving sustainable developmental goals. With a focus on promoting good health and well-being, the book explores various aspects of biotechnological advancements, their applications, and their potential to address pressing global challenges. The first section of the book sets the stage by discussing the evolution and revolutions in healthcare technologies. It covers topics such as the use of advanced technologies in predictive medicine and the management of diseases across different organs. The chapter on health and aging issues sheds light on the

importance of biotechnological interventions in promoting healthy aging. Continuing the exploration of health-related issues, the book addresses emerging technologies in drug development, design, and delivery systems, including the innovative approach of drug repurposing. It further discusses transformative technologies in reproductive health and neonatology, emphasizing the significant impact biotechnological advancements have on maternal and child health. The chapter on vaccines and vaccination strategies highlights the role of biotechnology in developing effective immunization approaches and combating infectious diseases. Additionally, the book showcases innovative technologies aimed at tackling pandemic diseases, providing insights into the potential of biotechnological interventions during global health crises. Then the focus shifts to the broader domain of sustainability and zero hunger. It explores various innovative approaches to food biotechnology, including the production of healthier and more productive crops and the development of technology-based artificial meats. The book also discusses the reduction of food waste through technology-based interventions, emphasizing the importance of sustainable food systems and the improvement of nutritional values in foods. Moving on to the conservation of biological diversity, the book sheds light on the significant relationship between biodiversity and sustainable development. It explores biotechnological innovations in identifying and characterizing selected groups of plants and animals, emphasizing the need for their sustainable utilization and then further highlighting the potential of biotechnology in discovering valuable resources and drawing inspiration from nature. The book also addresses the challenges faced by biodiversity and the threats posed by environmental degradation, underscoring the importance of emerging technologies in conservation efforts. Finally, the book delves into the realm of environment sustainability, showcasing biotechnological innovations in environmental bioremediation, biofuels, and green fuels. It addresses the impacts of climate change on biotic and abiotic systems and explores the role of biotechnology in mitigating these challenges. The chapters on biofertilizers and biopesticides highlight the significance of biotechnology in promoting organic farming practices and reducing the environmental impact of agriculture. The book offers a comprehensive and insightful overview of the advancements, applications, and potential of biotechnology in achieving sustainable developmental goals. It serves as a valuable resource for researchers, professionals, and policymakers working towards a sustainable and healthier future for all.
