1. Record Nr. UNINA9910366648203321

Titolo	Bioeconomy for Sustainable Development / / edited by Chetan Keswani
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-13-9431-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (389 pages)
Disciplina	338.927
Soggetti	Sustainable development Environmental engineering Biotechnology Agricultural economics Agriculture Plant breeding Sustainable Development Environmental Engineering/Biotechnology Agricultural Economics Plant Breeding/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Understanding Bioeconomy Systems: Integrating Economic, Organisational and Policy Concepts -- Chapter 2: Agrobiotechnology: Legal and Economic Aspects of Using GMOs in EU -- Chapter 3: Agricultural Biotechnology in the Philippines: Prospects and Challenges -- Chapter 4: Biological Control as Tool for Sustainable Development: Increasing the Distribution and Income Generation -- Chapter 5: Applications of remote sensing in pest monitoring and crop management -- Chapter 6: Biopesticides: Current Status and Future Prospects in India -- Chapter 7: From Genetic Modification to Gene Editing: Harnessing Advances in Biology for National Economic Development -- Chapter 8: Biotechnology Directive: A Major Step in Biotechnology Patent Law in Europe -- Chapter 9: Assessing the Emergence of Bioeconomy in Transition Economies By A Future-Oriented Approach - The Case of Poland -- Chapter 10: Enabling

Bioeconomy with Offshore Macroalgae Biorefineries -- Chapter 11: Integrated Bio-Cycles System for Sustainable and Productive Tropical Natural Resources Management in Indonesia -- Chapter 12: Biosynthesized Secondary Metabolites for Plant Growth Promotion -- Chapter 13: Potential of bioeconomy in urban green infrastructure -- Chapter 14: Vaccines: Biotechnology Market, Coverage and Regulatory Challenges for Achieving Sustainable Development Goals -- Chapter 15: Achieving Sustainable Drug development through CSR: possibility or utopia -- Chapter 16: Function of the Medicinal Plants of the Mangroves in a Society of High Marginalization in Tabasco, Mexico -- Chapter 17: The Global Economic Impact of Neurodegenerative diseases: Opportunities and Challenges -- Chapter 18: Conjugated recombinant Proteins as emerging new drugs -- Chapter 19: Economic Importance of Medicinal Plants in Asian Countries -- Chapter 20: Chemotherapeutic Drugs and Gallbladder Cancer: Market Potential in India.

Sommario/riassunto

The current era of incredible innovations has made science and technology one of the most powerful tools to meet the goals of incremental prosperity for humans and sustainable development. The development of the biotech industry in any given country is shaped by the characteristics of the technology—particularly its close relation to scientific knowledge—and by country-specific factors—the level and nature of the scientific knowledge base, the institutional set-up, and the role assumed by the government—which influence the country's ability to exploit new opportunities and appropriate the respective results. This book presents an integrated approach for sustained innovation in various areas of biotechnology. Focusing mainly on the industrial, socio-economic and legal implications of biotechnological advances, it examines in detail not only the implications of IPR in omics-based research but also the ethical and intellectual standards and how these can be developed for sustained innovation. Integrating science and business, it offers a peek behind the scenes of the biotech industry and provides a comprehensive analysis of the foundations of the present day industry for students and professionals alike. The book is divided into three parts: Food and Agricultural Biotechnology Industrial Biotechnology Pharmaceutical Biotechnology.