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Collana	EcoProduction, Environmental Issues in Logistics and Manufacturing, , 2193-4614
Disciplina	660.6
Soggetti	Environmental engineering Biotechnology Biomedical engineering Plant breeding Renewable energy resources Regional planning Urban planning Environmental Engineering/Biotechnology Biomedical Engineering/Biotechnology Plant Breeding/Biotechnology Renewable and Green Energy Landscape/Regional and Urban Planning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Category : Very small world (nanodeliveries) -- Chapter 1. Nanotechnology from Ancient Era to Today's World (Ketaki Deshmukh) -- Chapter 2. Nano-deliverables (Indulekha Singaravelu, Arun Kumar Palaniappan) -- Chapter 3. Targeted phytochemicals conjugated gold nanoparticles in cancer treatment (Menka Khoobchandani, Alice Raphael Karikachery, Kavita Katti, Kattesh V. Katti) -- Category : Intelligent devices -- Chapter 4. Enterprising Artificial Intelligence. Aiding to patients as well as the Healers (Arpita Saxena) -- Chapter 5. Point of Care Devices (Tabasum Zafar) -- Chapter 6. Pacemaker (Xuwei Hou) -- Category : Behind the Scenes Genes -- Chapter 7. Car-T Cell

Immune Therapy: Engineering T Cells to Treat Cancer (Sohinee Bhattacharyya) -- Category : Greener Environment -- Chapter 8. Performance Evaluation of Solar Energy Based Distillation System for Groundwater Purification: A Green concept For Rural Development of Indian villages (Shivakshi Jasrotia) -- Chapter 9. Biodegradable plastics production by Cyanobacteria (Ranjana Bhati) -- Category : Yielding more (agricultural and industrial) -- Chapter 10. Global status of Genetically Modified crops and its commercialization (Gulshan Chaudhary) -- Chapter 11. Global Food Security: A truncated yield of underutilized and orphan crops (Anoop Anand Malik, Gulshan Chaudhary) -- Category : Ordinary to extra-ordinary -- Chapter 12. Recent Metabolomics Advances in Soybean Improvement (Juhi Chaudhary, Gunvant Patil, Humira Sonah, Rupesh Deshmukh) -- Chapter 13. Phyto-stem Cell: New door in Cosmetology (Megha Jha) -- Category : Readiness to cure -- Chapter 14. Dual targeted therapy and molecular imaging with radiolabeled nanoparticles (B. Ocampo-García, B. Gibbens-Bandala, E. Morales-Avila E., L.Melendez-Alafort, M. Khoobchandanim, M.Trujillo-Nolasco, Katti K.) -- Chapter 15. Pharmaceutical biotechnology in herbal neuroprotection (Tabasum Zafar) -- Chapter 16. Rationale and Pathways for Developing a Pharmacotherapy for Cerebral Cavernous Malformations (Kiranj K. Chaudagar, Abhinav Kanwal).

Sommario/riassunto

This book explores a sampling of the most powerful and enterprising efforts to achieve biotechnological goals by means of various interdisciplinary approaches. From the fabrication of extremely small units to achieve specific objectives through nano-bio-technology, to devices with artificial intelligence, gene therapy for cerebrovascular anomalies, biodegradable plastics, the use of phyto-stem cells in cosmetology, CarT cell immune therapy, targeted therapies for cancer, 3D printed bones developed by the University of Wollongong in Australia, the sickle cell chip developed by IIT Bombay, and innovative sustainable energy solutions, the book includes a colorful spectrum of reviews on current and future biotech products. Gathering contributions by an international team of researchers, this book offers its audience, and particularly younger readers, revealing information on current and upcoming smart technologies.
