

1. Record Nr.	UNINA9910733708703321
Titolo	Advances in Pharmaceutical Biotechnology : Recent Progress and Future Applications // edited by Jayanta Kumar Patra, Amrithesh C. Shukla, Gitishree Das
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-2195-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xviii, 478 pages) ; 92 illustrations, 56 illustrations in colour
Disciplina	615.19
Soggetti	Pharmaceutical chemistry Biotechnology Therapeutics Medical microbiology Biochemistry Pharmaceutics Medical Microbiology Biotecnologia farmaceutica Quimioteràpia Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references
Nota di contenuto	Section 1. Traditional And Ethnomedicine -- 1.Traditional Folk Medicine And Drug Discovery: Prospects And Outcome -- 2. Ethnomedicine For Drug Discovery -- 3.Medicinal And Aromatic Plants: Store House To Herbal Antimicrobials -- 4.Ethnomedicinal Plants Of North-East India As A Potential Target For Drug Discovery Against Type 2 Diabetes Mellitus -- 5.Application Of Phytochemicals In Pharmaceuticals -- 6.The Herbal Drugs -- 7.Role Of Natural Products As Alternative Of Synthetic Steroidal Drugs -- 8.Phytochemicals As Therapeutics In Heavy Metal Toxicity -- 9.Phytotherapies For Thyroidism: An Overview -- 10.Phytochemicals As Antidepressants -- 11.Phytochemistry And Medicinal Value Of Putranjiva Roxburghii Wall -- 12.Traditional Herbal Practices Of Eastern Ghats, Odisha, India For

Treatment Of Bone Fracture -- 13.Screening Of Certain Medicinal Plants Of Manipur For Its Antifungal Activity Against Candida Species -- 14. Phytochemicals And Pharmaceutical: Overview -- 15.Millettia Pachycarpa Benth, A Herbal Medicinal Plant Of Southeast Asia -- 16. Phytochemicals And Their Role In Pharmaceuticals -- Section 2. Drug Discovery, Pharmaceutical Sciences And Future Medicine -- 17.Plant-Mediated Green Synthesis Of Nanoparticles -- 18.Biomedical Applications Of Green Synthesized Nanoparticles -- 19.Role Of Nanoparticles And Nanomaterials In Drug Delivery: An Overview -- 20. Micelleplexes: A Promising Nanocarriers For The Transport Of Genetic Material And Drugs -- 21.Phytomedicines And Their Prospects In Treatment Of Common Skin Diseases -- 22.Microbes As Natural Products For Drug Discovery -- 23.Natural Products From Actinobacteria For Drug Discovery -- 24.Anti – Leprosy Vaccine (Hansen's Disease Vaccine) -- 25.Exploitation Of Fibrinolytic Enzymes In Combating Blood Clotting Disorders - Recent Advances And Strategies: A Comprehensive Review -- 26.Recent Development In Chronic Inflammation Research And Mangroves As Potential Source Of Anti-Inflammatory Agents -- Section 3. Clinical Trials And Ipr In Pharmaceuticals -- 27.Tissue Engineering And Regenerative Medicines: An Interdisciplinary Understanding -- 28.Ipr: An Overview -- 29. Intellectual Property Rights And Its Role In Natural Product Research -- 30.Nanotechnology In Preclinical Pharmacokinetics.

Sommario/riassunto

This book explains both the basic science and the applications of biotechnology-derived pharmaceuticals, with special emphasis on their clinical uses. The foundations of pharmaceutical biotechnology lie mainly in the capability of plants, microorganism, and animals to produce low and high molecular weight compounds useful as therapeutics. Pharmaceutical biotechnology has flourished since the advent of recombinant DNA technology and metabolic engineering, supported by the well-developed bioprocess technology. A large number of monoclonal antibodies and therapeutic proteins have been approved, delivering meaningful contributions to patients' lives, and the techniques of biotechnology are also a driving force in modern drug discovery. Due to this rapid growth in the importance of biopharmaceuticals and the techniques of biotechnologies to modern medicine and the life sciences, the field of pharmaceutical biotechnology has become an increasingly important component in the education of pharmacists and pharmaceutical scientists. This book will serve as a complete one-stop source on the subject for undergraduate and graduate pharmacists, pharmaceutical science students, and pharmaceutical scientists in industry and academia.