

1. Record Nr.	UNINA9910869158503321
Autore	Visakh P. M
Titolo	Recent Progress in Nanobiotechnology : Modern Techniques in Biomedical Applications // edited by P. M. Visakh, Oguz Bayraktar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819728435 9789819728428
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (246 pages)
Collana	Interdisciplinary Biotechnological Advances, , 2730-7077
Altri autori (Persone)	BayraktarOguz
Disciplina	543.028
Soggetti	Imaging systems in biology Medicine - Research Biology - Research Nanomedicine Nanobiotechnology Biomaterials Cells Biological Imaging Biomedical Research Nanomedicine and Nanotoxicology Biomaterials-Cells
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Recent Progress in Nanobiotechnology: Modern Techniques in Biomedical Applications: State of Art and New Challenges -- Chapter 2. Nanobiotechnology for Brain Tumor Targeted Therapies -- Chapter 3. Nanobiotechnology for Cancer Diagnosis Drug Delivery Research -- Chapter 4. Biopolymers for Encapsulation of Antiviral Natural Compounds: Applications for Biomaterials and Textiles for Healthcare Products -- Chapter 5. Cell Culture Models and Nanobiotechnology for Advanced Drug Delivery Research -- Chapter 6. Biomolecules Organize Nanomaterials for Medical Applications -- Chapter 7. Polymer-based Nanotechnology to Combat the Emergence of Drug-resistance in Bacteria -- Chapter 8. Microbial Compartments and their Biomedical

Applications -- Chapter 9. Bio and Medical Applications of Carrageenan based Bionanocomposites -- Chapter 10. Novel Pharmaceutical Forms Including Biopolymer Encapsulated Antiviral Natural Compounds.

Sommario/riassunto

This book describes recent important advancements in nanobiotechnology for biomedical applications as well as explaining fundamentals and examining potential applications in biomedical settings. Nanobiotechnology is the study of applications of nanotechnologies in biological or biomedical settings. It is an interdisciplinary field of growing importance whose subcategories encompass chemical engineering, molecular biophysics, and cellular mechanics or tissue engineering. This book is structured in a way to summarize the latest process in nanobiotechnology at the molecular, cellular, tissue, and organ levels. The principles of the underlying science are presented, and widely accepted applications in the field and newly designed techniques are extensively described. Fresh insights are provided into the convergence of science and technology. This book is an ideal guide to the field that will be of value especially for researchers from interdisciplinary fields and higher level graduate students with extraordinary inspirations and research training. .
