1. Record Nr. UNINA9910253952903321

Autore	Banerjee Ena Ray
Titolo	Perspectives in Translational Research in Life Sciences and Biomedicine : Translational Outcomes Research in Life Sciences and Translational Medicine, Volume 2 / / by Ena Ray Banerjee
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2017
ISBN	981-10-5870-9
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XII, 132 p. 32 illus., 22 illus. in color.)
Disciplina	612.028 571.538
Soggetti	Regenerative medicine Tissue engineering Molecular biology Gene therapy Animal models in research Clinical biochemistry Regenerative Medicine/Tissue Engineering Molecular Medicine Gene Therapy Animal Models Medical Biochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Chapter 1: Tissue Engineering and Nuances of Regenerative Medicine -- Chapter 2: Nanoparticles as anti-inflammatory drug and vehicle -- Chapter 3: Novel Combinatorial Probiotics in Therapy and Prophylaxis -- Chapter 4: Bioprospecting and Bioresource -- Chapter 5: Pharmacogenomics and Molecular Diagnostics -- Chapter 6: Nutraceutical- Prophylactic and Therapeutic Role of Functional Food in Health.
Sommario/riassunto	This book is a collation of translational research outcomes in the area of life research, which was formerly used mainly for academic pursuits. The studies described focus on innovative interdisciplinary approaches

to unraveling problems in life sciences and biomedicine using biodiversity exploration and green technology. The techniques and models presented offer a ready reckoner for researchers in academic institutions and industry, and also provide valuable insights into fundamental research. The book discusses topics such as tissue engineering to create lineage-specific cells for tissue-specific regeneration; how combination cultures of commensalistic bacteria can help boost immunity; development of functional food from natural products from plant, animal, and microbial sources in the nutraceuticals domain; as well as synthesis and mechanisms in nanomedicine and nanoscaffolds in biomedicine. The studies and discourses described touch upon topics that explore biodiversity for the development of disease models, toxicity studies, developmental studies, and harvesting of bioactive compounds for alternative income generation and poverty alleviation, and as a result, bring about economic and ecologic sustainability. This multidimensional and multidisciplinary book focuses on tissue-specific targeting by nanodrugs, development of bioengineering formats for cell- based, nutraceutical-based, functional-food-based and antibody-based green therapy designed tackle multifaceted diseases and syndromes.