1. Record Nr. UNINA9910462403603321

Titolo	Biomaterials science : an integrated clinical and engineering approach / / edited by Yitzhak Rosen, Noel Elman
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, , 2012
ISBN	0-429-13038-4 1-4398-0405-2
Descrizione fisica	1 online resource (320 p.)
Altri autori (Persone)	RosenYitzhak ElmanNoel
Disciplina	610.284
Soggetti	Biomedical materials Bioengineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Foreword; Authors; Contributors; 1. Introduction; 2. Principles of Clinical and Engineering Integration in Hemocompatibility; 3. Medical Applications of Micro-Electro-Mechanical Systems (MEMS) Technology; 4. Nanoparticles to Cross Biological Barriers; 5. Biomaterials, Dental Materials, and Device Retrieval and Analysis; 6. Biomaterials and the Central Nervous System: Neurosurgical Applications of Materials Science; 7. Biomaterials in Obstetrics and Gynecology; 8. Tissue Engineering: Focus on the Cardiovascular System 9. Tissue Engineering: Focus on the Musculoskeletal System10. Regulatory Challenges in Biomaterials: Focus on Medical Devices; 11. Innovative Product Development and Technology Adoption for Medical Applications; Appendix: Some Examples of FDA-Approved Products
Sommario/riassunto	""This book is essential when designing, developing and studying biomedical materials.... provides an excellent review-from a patient, disease, and even genetic point of view-of materials engineering for the biomedical field. ... This well presented book strongly insists on how the materials can influence patients' needs, the ultimate drive for biomedical engineering. ...[presents an] Interesting and innovative

	review from a patient focus perspective-the book emphasizes the importance of the patients, which is not often covered in other biomedical material's books.""-Fanny

2.

Record Nr.	UNINA9910450497003321
Autore	Baldi Pierre
Titolo	DNA microarrays and gene expression / / Pierre Baldi and G. Wesley Hatfield [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2002
ISBN	1-107-13017-4 1-280-16041-1 9786610160419 0-511-06321-0 0-511-11922-4 1-139-14694-7 0-511-05688-5 0-511-32267-4 0-511-54177-5 0-511-07167-1
Descrizione fisica	1 online resource (xvi, 213 pages) : digital, PDF file(s)
Disciplina	572.8/65
Soggetti	DNA microarrays Gene expression
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Half-title; Title; Copyright; Contents; Preface; 1 A brief history of genomics; 2 DNA array formats; 3 DNA array readout methods; 4 Gene expression profiling experiments: Problems, pitfalls, and solutions; 5 Statistical analysis of array data: Inferring changes; 6 Statistical analysis of array data: Dimensionality reduction,clustering,and regulatory regions; 7 The design, analysis,and interpretation of gene expression profiling experiments; 8 Systems biology; Appendix A; Appendix B;

	Appendix C; Appendix D; Index
Sommario/riassunto	Massive data acquisition technologies, such as genome sequencing, high-throughput drug screening, and DNA arrays are in the process of revolutionizing biology and medicine. Using the mRNA of a given cell, at a given time, under a given set of conditions, DNA microarrays can provide a snapshot of the level of expression of all the genes in the cell. Such snapshots can be used to study fundamental biological phenomena such as development or evolution, to determine the function of new genes, to infer the role individual genes or groups of genes may play in diseases, and to monitor the effect of drugs and other compounds on gene expression. Originally published in 2002, this inter-disciplinary introduction to DNA arrays will be of value to anyone with an a interest in this powerful technology.