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Autore	Sanavio, Marco
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Altri autori (Persone)	Busetto, Luce Maria
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Titolo	Advances in Biotechnology // edited by Indu Ravi, Mamta Baunthiyal, Jyoti Saxena
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2014
ISBN	81-322-1554-0
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (264 p.)
Disciplina	660.6
Soggetti	Life sciences Medicine Ecology Pharmacy Life Sciences, general Biomedicine, general Environment, general Science, Humanities and Social Sciences, multidisciplinary Medicine/Public Health, general
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. High Capacity vectors -- 2. DNA Sequencing -- 3. Molecular Markers -- 4. Gene Therapy -- 5. RNA interference and its Applications -- 6. DNA Microarray -- 7. Metagenomics: The Exploration of Unculturable Microbial World -- 8. Proteomics -- 9. Recent Advances in Stem Cell Research -- 10. Biosensors -- 11. Production and Applications of Monoclonal Antibodies -- 12. Edible Vaccines -- 13. Engineering Plants for Phytoremediation -- 14. Future of Biotechnology Companies in India.
Sommario/riassunto	The book "Advances in Biotechnology" is about recent advances in some of the important fields that are ongoing in certain biotechnological applications. Biotechnology has been quite helpful in keeping pace with the demands of every increasing human population and in improving the quality of human life. Major biotechnological achievements associated with human welfare have been from the fields

like genetic engineering; transgenic plants and animals; genomics, proteomics, monoclonal antibodies for the diagnosis of disease, gene therapy etc. Fourteen authoritative chapters written by experts having experience in academics and research on current developments and future trends in biotechnology have been empathized. The book provides a detailed account of various methodologies used in biotechnology i.e. High capacity vectors, DNA sequencing dealing with next generation sequencing, Molecular markers, DNA microarray technology, as well as Proteomics that have revolutionized biotechnology with a wide array of applications. The book not only presents a well-founded explanation of the topics but also aims to present up-to-date reviews of current research efforts, some thoughtful discussions on the potential benefits and risks involved in producing biotechnological products and the challenges of bringing such products to market. It will prove to be an excellent reference work for both academicians and researchers, indicating new starting points to young researchers for new projects in the field. The book is intended for biotechnologist, biologist, researchers, teachers and students of Biosciences and Biotechnology.
