

1. Record Nr.	UNINA9911006886503321
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Titolo	Biotechnology // Thomas Happe, Andreas Faissner, Raphael Gasper-Schönenbrücher, Sarah Gaßmeyer, Anja Hemschemeier, Stefan Herlitze, Alice Klausmeyer, Robert Kourist, Mathias Lübben, Hermann Lübbert, Olivia Massek, Axel Mosig, Franz Narberhaus, Marc M. Nowaczyk, Ansgar Poetsch, Jacqueline Reinhard, Sascha Rexroth, Matthias Rögner, Katharina Spoida, Dennis Stern, Ines Teichert, Ursula Theocharidis, Stefan Wiese, Andreas Harst, Markus Piotrowski; Ulrich Kück, Nicole Frankenberg-Dinkel
Pubbl/distr/stampa	Berlin ; ; Boston : , : De Gruyter, , [2015] ©2015
ISBN	9781523104499 152310449X 9783110383607 3110383608 9783110342635 3110342634
Descrizione fisica	1 online resource (460 p.)
Collana	De Gruyter Textbook
Classificazione	WF 9700
Disciplina	570 660.6
Soggetti	Biotechnology
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 at the end of each chapters and index.
Nota di contenuto	Frontmatter -- Contents -- List of contributing authors -- Introduction -- 1. History of biotechnology and classical applications in food biotechnology -- 2. Biocatalysis and enzyme engineering -- 3. Prokaryotes as protein production facilities -- 4. Fungal biotechnology -- 5. Blue biotechnology -- 6. Biotechnological potential of cyanobacteria -- 7. Eukaryotic microalgae in biotechnological applications -- 8. Strain design and omics technologies -- 9. Biotechnology of higher plants -- 10. Transgenic animals -- 11. Stem cell biology and applications in neuroscience -- 12. Optogenetics --

Sommario/riassunto

Biotechnology is the technical application that uses living organisms or biological systems to make products that have a profound impact on agriculture, environment, and human health. In this text book, a color-coded classification is used to present basic chapters on white, red, green and blue biotechnology. Beside traditional biotechnical processes, the book will address principles of modern biotechnology research and applications. Each chapter has a general introduction and concluding paragraph, gives key terms, will address problems, and recommends additional readings. This text book is ideally suited for advanced graduate or master students and will also be a good reference for PhD students, physicians, engineers, attorneys, or non-specialist with an interest into biotechnology.
