1. Record Nr. UNISALENTO991001150449707536

Autore	Weisskopf, Victor F.
Titolo	Physics in the twentieth century : selected essays / Victor F. Weisskopf ; foreword by H. Bethe
Pubbl/distr/stampa	Cambridge, MA : MIT Press, 1972
Descrizione fisica	xv, 368 p. : ill. ; 22 cm.
Classificazione	1:53 53.4 530'.08 QC71
Altri autori (Persone)	Bethe, Hans A.
Soggetti	Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

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Titolo	Synthetic Biology of Yeasts : Tools and Applications / / edited by Farshad Darvishi Harzevili
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-89680-3
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (377 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	660.62
Soggetti	Synthetic Biology Biotechnology Bioinformatics Industrial microbiology Chemical Bioengineering Computational and Systems Biology Industrial Microbiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Computational Prediction Tools for Synthetic Biology Components -- Computational Tools for Pathway Prediction and Design -- Computational Tools for Metabolic Modeling -- Computational Tools for Strain Optimization -- New Tools for the Synthesis of Standardized Biobricks -- Assembly of Standardized Biobricks and Construction of Pathways -- New and Powerful Genome Editing Methods -- Optimization of Synthetic Pathways -- Engineering of Yeast Consortia. Synthetic Biology of Yeasts for Pharmaceuticals Production.
Sommario/riassunto	This book covers recent advances and future trends in yeast synthetic biology, providing readers with an overview of computational and engineering tools, and giving insight on important applications. Yeasts are one of the most attractive microbial cell factories for the production of a wide range of valuable products, including pharmaceuticals, nutraceuticals, cosmetics, agrochemicals and biofuels. Synthetic biology tools have been developed to improve the metabolic engineering of yeasts in a faster and more reliable manner. Today,

these tools are used to make synthetic pathways and rewiring metabolism even more efficient, producing products at high titer, rate, and yield. Split into two parts, the book opens with an introduction to rational metabolic pathway prediction and design using computational tools and their applications for yeast systems and synthetic biology. Then, it focuses on the construction and assembly of standardized biobricks for synthetic pathway engineering in yeasts, yeast cell engineering and whole cell yeast-based biosensors. The second part covers applications of synthetic biology to produce diverse and attractive products by some well-known yeasts. Given its interdisciplinary scope, the book offers a valuable asset for students, researchers and engineers working in biotechnology, applied microbiology, metabolic engineering and synthetic biology.