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Titolo	Systems biology and synthetic biology [[electronic resource] /] / edited by Pengcheng Fu, Sven Panke
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ISBN	1-282-28012-0 9786612280122 0-470-43798-7 0-470-43797-9
Descrizione fisica	1 online resource (674 p.)
Classificazione	BIO 180f CIT 972f WD 9200 WH 2000
Altri autori (Persone)	FuPengcheng PankeSven
Disciplina	572.838 620.8 660.6
Soggetti	Biotechnology Genetic engineering Biological systems 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 and index.
Nota di contenuto	SYSTEMS BIOLOGY AND SYNTHETIC BIOLOGY; CONTENTS; Foreword; Contributors; 1 Introduction; 2 Basics of Molecular Biology, Genetic Engineering, and Metabolic Engineering; 3 High-Throughput Technologies and Functional Genomics; 4 Genomic Signal Processing of DNA Microarray Data for the Enhanced Prediction of Axillary Lymph Node Status of Breast Cancer Tumors; 5 Recombinant Genomes: Novel Resources for Systems Biology and Synthetic Biology; 6 In silico Genome-Scale Metabolic Models: The Constraint-Based Approach and its Applications 7 Mathematical Modeling of Genetic Regulatory Networks: Stress

Responses in Escherichia coli8 Synthetic Life: Ethobricks for a New Biology; 9 Yeast as a Prototype for Systems Biology; 10 Construction and Applications of Genome-Scale in silico Metabolic Models for Strain Improvement; 11 Synthetic Biology: Putting Engineering into Bioengineering; 12 Rationales of Gene Design and de novo Gene Construction; 13 Self-Replication in Chemistry and Biology; 14 The Synthetic Approach for Regulatory and Metabolic Circuits; 15 Synthetic Gene Networks  
16 The Theory of Biological Robustness and its Implication to Cancer17 Nucleic Acid Engineering; 18 Potential Applications of Synthetic Biology in Marine Microbial Functional Ecology and Biotechnology; 19 On Fundamental Implications of Systems and Synthetic Biology; 20 Outstanding Issues in Systems and Synthetic Biology; Index

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Sommario/riassunto

The genomic revolution has opened up systematic investigations and engineering designs for various life forms. Systems biology and synthetic biology are emerging as two complementary approaches, which embody the breakthrough in biology and invite application of engineering principles. Systems Biology and Synthetic Biology emphasizes the similarity between biology and engineering at the system level, which is important for applying systems and engineering theories to biology problems. This book demonstrates to students, researchers, and industry that systems biology relies on synthetic biology

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2. Record Nr.	UNINA9910482462803321
Autore	Benzoni Girolamo <1519-1572?.>
Titolo	Historia Indiae Occidentalis, tomis duobus comprehensa. Prior, res ab Hispanis in india Occidentali hactenus gestas, acerbum illorum in eas gentes dominatum, insignesque in Gallos ad Floridam insulam sæuitiæ exemplum describit. Alter vero, Brasiliae (quæ et America dicitur) rerumque in ea obseruatione dignarum a nobis penitus incognita descriptionem continet / Heronymo Benzone...& Ioanne Lerio... autoribus. Ex eorum autem idiomate in latinum sermonem Urbani Calvetonis et G.M. studio conuersi...Addita est Totius Indiæ Occidentalis...descriptio.
Pubbl/distr/stampa	Geneva, : A. Vignon, 1586
Descrizione fisica	Online resource (16 p. l., 480 p., 8 l. , (8vo))
Altri autori (Persone)	LeryJean de <1534-1611.> ChauvetonUrbain <approximately 1616.> MG. <active 16th century.>
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Reproduction of original in The Wellcome Library, London.