

1. Record Nr.	UNINA9911020056503321
Titolo	Microbial functional genomics / / Jizhong Zhou ... [et al.]
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Liss, c2004
ISBN	1-280-55665-X 9786610556656 0-471-64751-9 0-471-64752-7
Descrizione fisica	1 online resource (617 p.)
Altri autori (Persone)	ZhouJizhong <1959->
Disciplina	579/.135
Soggetti	Microbial genomics
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 (p. 499-574) and index.
Nota di contenuto	""Contents""; ""Preface""; ""Foreword""; ""Acknowledgments""; ""1 Genomics: Toward A Genome- Level Understanding of the Structure, Functions, and Evolution of Biological Systems""; ""2 Microbial Diversity and Genomics""; ""3 Computational Genome Annotation""; ""4 Microbial Evolution from a Genomics Perspective""; ""5 Computational Methods for Functional Prediction of Genes""; ""6 DNA Microarray Technology""; ""7 Microarray Gene Expression Data Analysis""; ""8 Mutagenesis as a Genomic Tool for Studying Gene Function""; ""9 Mass Spectrometry"" ""10 Identification of Protein-Ligand Interactions""""11 The Functional Genomics of Model Organisms: Addressing Old Questions from a New Perspective""; ""12 Functional Genomic Analysis of Bacterial Pathogens and Environmentally Significant Microorganisms""; ""13 The Impact of Genomics on Antimicrobial Drug Discovery and Toxicology""; ""14 Application of Microarray- Based Genomic Technology to Mutation Analysis and Microbial Detection""; ""15 Future Perspectives: Genomics Beyond Single Cells""; ""Index""
Sommario/riassunto	Microbial Functional Genomics offers a timely summary of the principles, approaches, and applications. It presents a comprehensive review of microbial functional genomics, covering microbial diversity, microbial genome sequencing, genomic technologies, genome-wide functional analysis, applied functional genomics, and future directions.

An introduction will offer a definition of the field and an overview of the historical and comparative genomics aspects.
