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Autore	Moss Robert A.
Titolo	Contemporary carbene chemistry / / edited by Robert A. Moss, Michael P. Doyle
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ISBN	1-118-73026-7 1-118-73037-2 1-118-73040-2
Descrizione fisica	1 online resource (606 p.)
Collana	Wiley Series of Reactive Intermediates in Chemistry and Biology
Classificazione	SCI013050
Altri autori (Persone)	MossRobert A DoyleMichael P
Disciplina	547/.01
Soggetti	Carbenes (Methylene compounds) Carbon compounds
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	Machine generated contents note: Preface PART 1: PROPERTIES AND REACTIONS OF CARBENES 1 Carbene Stability S. Gronert and R. M. O'Ferrall 2 Stable Carbenes J. P. Moerdyk and C. W. Bielawski 3 Acid-Base Chemistry of Carbenes A. M. O'Donoghue and R. S. Massey 4 Computational Methods for the Study of Carbenes and their Excited States H. L. Luk, S. Vyas, and C. M. Hadad 5 Dynamics in Carbene Reactions D. Merrer, K. Houk, and L. Xu 6 Ultrafast Kinetics of Carbene Reactions G. Burdzinski and M. S. Platz 7 Tunneling in the Reactions of Carbenes and Oxacarbenes D. Gerbig and P. R. Schreiner 8 Carbodicarbenes G. Frenking and R. Tonner 9 Catalytic Reactions with N-Mesityl Substituted N-Heterocyclic Carbenes J. Mahatthananchai and J. W. Bode 10 Supramolecular Carbene Chemistry U. Brinker, J.-L. Mieusset, and M. G. Rosenberg PART 2: METAL CARBENES 11 Modern Lithium Carbenoid Chemistry V. Capriati 12 Rhodium Carbenes H. Davies and B. Parr 13 Ruthenium Carbenes S. T. Diver and J. M. French 14 Nucleophilic Carbenes of the Chromium Triad Z. J. Tonzetich 15 Cobalt-Mediated Carbene Transfer Reactions X. Cui and X. P. Zhang 16

	Gold Carbenes L. Zhang .
Sommario/riassunto	"The newfound stability of carbenes has led to their development as catalysts and ligands for metal complexes of vast potential, including biomolecule labeling and surface modification of materials. Providing a fresh evaluation of the field, Contemporary Carbene Chemistry explores novel structural, catalytic, and organometallic aspects of carbene chemistry. Chapters focus on the most interesting, fruitful, and promising directions in their topical areas. Featuring a chapter by Nobel Laureate Robert Grubbs, this timely text provides graduate students with the most innovative and promising aspects of carbene research over the past decade"-- "Providing a fresh evaluation of the field, Contemporary Carbene Chemistry explores novel structural, catalytic, and organometallic aspects of carbene chemistry. Chapters focus on the most interesting, fruitful, and promising directions in their topical areas"--

2.

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Autore	Moat Albert G
Titolo	Microbial physiology [[electronic resource] /] / Albert G. Moat, John W. Foster, Michael P. Spector
Pubbl/distr/stampa	New York, : Wiley-Liss, c2002
ISBN	1-280-36668-0 9786610366682 0-470-35616-2 0-471-46119-9 0-471-22386-7
Edizione	[4th ed.]
Descrizione fisica	1 online resource (736 p.)
Altri autori (Persone)	FosterJohn Watkins SpectorMichael P
Disciplina	571.29
Soggetti	Microorganismes Fisiologia Microbiologia Microorganisms - Physiology Microbiology Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	MICROBIAL PHYSIOLOGY; CONTENTS; PREFACE; 1 INTRODUCTION TO MICROBIAL PHYSIOLOGY; The Escherichia coli Paradigm; Cell Structure; The Cell Surface; Synthesis of DNA, RNA, and Protein; Metabolic and Genetic Regulation; Microbial Genetics; Chemical Synthesis; Chemical Composition; Energy; Oxidation-Reduction Versus Fermentation; Nitrogen Assimilation; Special Topics; Endospores; Growth; Continuous Culture; Factors Affecting Growth; Nutrition; Oxygen; Carbon Dioxide; Extremophiles; Microbial Stress Responses; Summary; 2 MACROMOLECULAR SYNTHESIS AND PROCESSING: DNA, RNA, AND PROTEIN SYNTHESIS Structure of DNABacterial Nucleoids; REP Elements; DNA Replication; DNA Replication is Bidirectional and Semiconservative; DNA Polymerase Functions as a Dimer; Model of DNA Replication; Initiation of DNA Replication; Termination of DNA Replication and Chromosome Partitioning; RNA Synthesis: Transcription; RNA Synthesis; RNA Turnover; RNA Processing; Protein Synthesis: Translation; Transfer RNA; Charging of tRNA; Ribosome Structure and Synthesis; Initiation of Polypeptide Synthesis; Elongation; Peptide Bond Formation; Translocation; Termination; Posttranslational Processing When Nonsense Makes SenseCoupled Transcription and Translation; Protein Folding and Chaperones; Folding Stages; Protein Folding and Chaperone Mechanisms Outside the Cytoplasm; Quality Control; Protein Trafficking; Insertion of Integral Membrane Proteins and Export of Periplasmic Proteins; Secretion of Proteins Across the Outer Membrane; Protein Degradation; Degradation of Abnormal Proteins; Energy-Dependent Proteases; Antibiotics that affect Nucleic Acid and Protein Synthesis; Agents Affecting DNA Metabolism; Agents Affecting Transcription; Agents Affecting Translation; Nucleoids DNA ReplicationTranscription and Translation; Protein Folding, Trafficking, and Degradation; Antibiotics; 3 BACTERIAL GENETICS: DNA EXCHANGE, RECOMBINATION, MUTAGENESIS, AND REPAIR; Transfer of Genetic Information in Prokaryotes; Plasmids; Partitioning; Incompatibility; Nonconjugative, Mobilizable Plasmids; Resistance Plasmids; Plasmids in Other Bacterial Genera; Plasmid Replication; Addiction Modules: Plasmid Maintenance by Host Killing: The ccd Genes; Conjugation; F Factor; cis/trans complementation Test; Conjugation and Pheromones in Enterococci Conjugation, Cell-Cell Signaling, and Bacterial-Induced TumorsTransformation; Gram-Positive Transformation; Gram-Negative Transformation; Transfection and Forced Competence; Transduction; Recombination; General Recombination; Genetics of Recombination; Restriction and Modification; Insertion Sequences and Transposable Elements; Transposon Tn10; Transposon Tn3; Conjugative Transposition; Evolutionary Consideration; Integrons; Mutagenesis; Spontaneous Mutations; The Nature of Mutational Events; Suppressor Mutations; DNA Repair Systems; Photoreactivation; Nucleotide Excision Repair Transcription-Coupled Repair
Sommario/riassunto	The Fourth Edition of Microbial Physiology retains the logical, easy-to-follow organization of the previous editions. An introduction to cell structure and synthesis of cell components is provided, followed by detailed discussions of genetics, metabolism, growth, and regulation for anyone wishing to understand the mechanisms underlying cell survival and growth. This comprehensive reference approaches the

subject from a modern molecular genetic perspective, incorporating new insights gained from various genome projects.