1. Record Nr. UNINA9910143176603321 Autore Moat Albert G Titolo Microbial physiology [[electronic resource] /] / Albert G. Moat, John W. Foster, Michael P. Spector New York, : Wiley-Liss, c2002 Pubbl/distr/stampa **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 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 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

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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.