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Christoph Wittmann,James C. Liao

Systems Biology and Biotechnology of Escherichia Coli Sang Yup Lee,2009-04-17 E coli has been a model organism for almost all biological and biotechnological studies. This book brings together reviews on systems biology and biotechnological applications of E coli. It is suitable for those interested in systems biology and biotechnology.

The Evolving Threat of Antimicrobial Resistance World Health Organization,2012 Antibiotic resistance development is a natural process of adaption leading to a limited lifespan of antibiotics. Unnecessary and inappropriate use of antibiotics favours the emergence and spread of resistant bacteria. A crisis has been building up over decades, so that today common and life-threatening infections are becoming difficult or even impossible to treat. It is time to take much stronger action worldwide to avert an ever increasing health and economic burden. A new WHO publication The evolving threat of antimicrobial resistance--Options for action describes examples of policy activities that have addressed AMR in different parts of the world. The aim is to raise awareness and to stimulate further coordinated efforts.

Bacteriological Analytical Manual United States. Food and Drug Administration. Division of Microbiology,1969

Bacterial Biofilms Tony Romeo,2008-02-26 Throughout the biological world, bacteria thrive predominantly in surface-attached, matrix-enclosed, multicellular communities or biofilms, as opposed to isolated planktonic cells. This choice of lifestyle is not trivial, as it involves major shifts in the use of genetic information and cellular energy, and has profound consequences for bacterial physiology and survival. Growth within a biofilm can thwart immune function and antibiotic therapy and thereby complicate the treatment of infectious diseases, especially chronic and foreign device-associated infections. Modern studies of many important biofilms have advanced well beyond the descriptive stage, and have begun to provide molecular details of the structural, biochemical, and genetic processes that drive biofilm formation and its dispersion. There is much diversity in the details of biofilm development among various species, but there are also commonalities. In most species, environmental and nutritional conditions greatly influence biofilm development. Similar kinds of adhesive molecules often promote biofilm formation in diverse species. Signaling and regulatory processes that drive biofilm development are often conserved, especially among related bacteria. Knowledge of such processes holds great promise for efforts to control biofilm growth and combat biofilm-associated infections. This volume focuses on the biology of biofilms that affect human disease, although it is by no means comprehensive. It opens with chapters that provide the reader with current perspectives on biofilm development, physiology, environmental, and regulatory effects, the role of quorum sensing, and resistance/phenotypic persistence to antimicrobial agents during biofilm growth.

Manual of Tropical Medicine Aldo Castellani,Albert John Chalmers,1910 The author made many discoveries of great importance in tropical medicine and this work is a standard text on the subject.

The Universe of Escherichia coli Marjanca Starčič Erjavec,2019-09-18 The title of the book The Universe of Escherichia coli aims to present and emphasize the huge diversity of this bacterial species and our efforts to prevent the E. coli infections. As it is part of the gut microbiota, E. coli is a well-known commensal species, and probiotic E. coli strains are successfully used for improving host's health. Also many workhorse E. coli strain exist that are employed in laboratory and biotechnology settings. But certain E. coli strains can cause intestinal and also extraintestinal infections at many anatomical sites. Therefore many efforts are undertaken to prevent E. coli infections, among them food safety, vaccines, but also new antimicrobial agents are searched for.

Bergey's Manual of Systematic Bacteriology David R. Boone,Richard W. Castenholz,2012-01-13 Bacteriologists from all levels of expertise and within all specialties rely on this Manual as one of the most comprehensive and authoritative works. Since publication of the first edition of the Systematics, the field has undergone revolutionary changes, leading to a phylogenetic classification of prokaryotes based on sequencing of the small ribosomal subunit. The list of validly named species has more than doubled since publication of the first edition, and descriptions of over 2000 new and realigned species are included in this new edition along with more in-depth ecological information about individual taxa and extensive introductory essays by leading authorities in the field.

Industrial Biotechnology Christoph Wittmann,James C. Liao,2017-04-10 The latest volume in the Advanced Biotechnology series provides an overview of the main production hosts and platform organisms used today as well as promising future cell factories in a two volume book. Alongside describing tools for genetic and metabolic engineering for strain improvement, the authors also impart topical information on computational tools, safety aspects and industrial-scale production. Following an introduction to general concepts, historical developments and future technologies, the text goes on to cover multi-purpose bacterial cell factories, including those organisms that exploit anaerobic biosynthetic power. Further chapters deal with microbes used for the production of high-value natural compounds and those obtained from alternative raw material sources, concluding with eukaryotic workhorses. Of interest to biotechnologists and microbiologists, as well as those working in the biotechnological, chemical, food and pharmaceutical industries.The latest volume in the Advanced Biotechnology series provides an overview of the main production hosts and platform organisms used today as well as promising future cell factories in a two volume book. Alongside describing tools for genetic and metabolic engineering for strain improvement, the authors also impart topical information on computational tools, safety aspects and industrial-scale production. Following an introduction to general concepts, historical developments and future technologies, the text goes on to cover multi-purpose bacterial cell factories, including those organisms that exploit anaerobic biosynthetic power. Further chapters deal with microbes used for the production of high-value natural compounds and those obtained from alternative raw material sources, concluding with eukaryotic workhorses. Of interest to biotechnologists and microbiologists, as well as those working in the biotechnological, chemical, food and pharmaceutical industries.

Escherichia coli Michael Donnenberg,2013-06-12 The 2e of Escherichia coli is a unique, comprehensive analysis of the biology and molecular mechanisms that enable this ubiquitous organism to thrive. Leading investigators in the field discuss the molecular basis of E. coli pathogenesis followed by chapters on genomics and evolution. Detailed descriptions of distinct strains reveal the molecular pathogenesis of each and the causes of intestinal and extra-intestinal infections in humans. This work concludes with a presentation of virulence factors common to two or more pathotypes. The book is a great resource for references and up-to-date knowledge for anyone who studies E. coli pathogenesis, either as established investigators or investigators new to the field. It is also an excellent text for those who teach mechanisms of pathogenesis to graduate students and medical students and wish to have a source of knowledge from which to develop lectures. Offers a single source of information of E. coli pathogenesis written by expert authors Presents comprehensive coverage on molecular mechanisms, biology, evolution and genomics and recent advances

Cell-Free Synthetic Biology Yuan Lu,2019-06-27 This book describes advanced studies in cell-free synthetic biology, an emerging biotechnology that focuses on cell-free protein synthesis and cell-free systems for fundamental and industrial research in areas such as genetic circuit design, small-molecule synthesis, complicated-macromolecule synthesis, unnatural-macromolecule synthesis, high-throughput screening, artificial cells, and biomaterials. Cell-free synthetic biology is now an integral part of developing fields like nanotechnology, materials science, and personalized medicine. The book discusses the main research directions in the development of cell-free systems, as well as a number of applications of cell-free synthetic biology, ranging from structural biology to the human health industry. It is intended for students and researchers in life sciences, synthetic biology, bioengineering, and chemical engineering.

The Mechanisms of DNA Replication David Stuart,2013-02-20 DNA replication is a fundamental part of the life cycle of all organisms. Not surprisingly many aspects of this process display profound conservation across organisms in all domains of life. The chapters in this volume outline and review the current state of knowledge on several key aspects of the DNA replication process. This is a critical process in both normal growth and development and in relation to a broad variety of pathological conditions including cancer. The reader will be provided with new insights into the initiation, regulation, and progression of DNA replication as well as a collection of thought provoking questions and summaries to direct future investigations.

Microcosm Carl Zimmer,2008-05-06 A Best Book of the YearSeed Magazine • Granta Magazine • The Plain-DealerIn this fascinating and utterly engaging book, Carl Zimmer traces E. coli's pivotal role in the history of biology, from the discovery of DNA to the latest advances in biotechnology.

He reveals the many surprising and alarming parallels between E. coli's life and our own. And he describes how E. coli changes in real time, revealing billions of years of history encoded within its genome. E. coli is also the most engineered species on Earth, and as scientists retool this microbe to produce life-saving drugs and clean fuel, they are discovering just how far the definition of life can be stretched.

Microbiology Laboratory Guidebook United States. Food Safety and Inspection Service. Microbiology Division, 1998

Microbial Evolution Howard Ochman, 2016 Bacteria have been the dominant forms of life on Earth for the past 3.5 billion years. They rapidly evolve, constantly changing their genetic architecture through horizontal DNA transfer and other mechanisms. Consequently, it can be difficult to define individual species and determine how they are related. Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Biology examines how bacteria and other microbes evolve, focusing on insights from genomics-based studies. Contributors discuss the origins of new microbial populations, the evolutionary and ecological mechanisms that keep species separate once they have diverged, and the challenges of constructing phylogenetic trees that accurately reflect their relationships. They describe the organization of microbial genomes, the various mutations that occur, including the birth of new genes de novo and by duplication, and how natural selection acts on those changes. The role of horizontal gene transfer as a strong driver of microbial evolution is emphasized throughout. The authors also explore the geologic evidence for early microbial evolution and describe the use of microbial evolution experiments to examine phenomena like natural selection. This volume will thus be essential reading for all microbial ecologists, population geneticists, and evolutionary biologists.

Bacterial Persistence Jan Michiels, Maarten Fauvart, 2015-10-15 This volume presents a comprehensive collection of methods that have been instrumental to the current understanding of bacterial persisters. Chapters in the book cover topics ranging from general methods for measuring persister levels in Escherichia coli cultures, protocols for the determination of the persister subpopulation in Candida albicans, quantitative measurements of Type I and Type II persisters using ScanLag, to in vitro and in vivo models for the study of the intracellular activity of antibiotics. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Bacterial Persistence: Methods and Protocols brings together the most respected researchers in bacterial persistence whose studies will remain vital to understanding this field for many years to come.

Introduction to Computational Genomics Nello Cristianini, Matthew W. Hahn, 2006-12-14 Where did SARS come from? Have we inherited genes from Neanderthals? How do plants use their internal clock? The genomic revolution in biology enables us to answer such questions. But the revolution would have been impossible without the support of powerful computational and statistical methods that enable us to exploit genomic data. Many universities are introducing courses to train the next generation of bioinformaticians: biologists fluent in mathematics and computer science, and data analysts familiar with biology. This readable and entertaining book, based on successful taught courses, provides a roadmap to navigate entry to this field. It guides the reader through key achievements of bioinformatics, using a hands-on approach. Statistical sequence analysis, sequence alignment, hidden Markov models, gene and motif finding and more, are introduced in a rigorous yet accessible way. A companion website provides the reader with Matlab-related software tools for reproducing the steps demonstrated in the book.

Systems Metabolic Engineering Christoph Wittmann, Sang Yup Lee, 2012-06-15 Systems Metabolic Engineering is changing the way microbial cell factories are designed and optimized for industrial production. Integrating systems biology and biotechnology with new concepts from synthetic biology enables the global analysis and engineering of microorganisms and bioprocesses at super efficiency and versatility otherwise not accessible. Without doubt, systems metabolic engineering is a major driver towards bio-based production of chemicals, materials and fuels from renewables and thus one of the core technologies of global green growth. In this book, Christoph Wittmann and Sang-Yup Lee have assembled the world leaders on systems metabolic engineering and cover the full story - from genomes and networks via discovery and design to industrial implementation practises. This book is a comprehensive resource for students and researchers from academia and industry interested in systems metabolic engineering. It provides us with the fundamentals to targeted engineering of microbial cells for sustainable bio-production and stimulates those who are interested to enter this exiting research field.

Review of the Department of Energy's Genomics: GTL Program National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Review of the Department of Energy's Genomics: GTL Program, 2006-04-19 The U.S. Department of Energy (DOE) promotes scientific and technological innovation to advance the national, economic, and energy security of the United States. Recognizing the potential of microorganisms to offer new energy alternatives and remediate environmental contamination, DOE initiated the Genomes to Life program, now called Genomics: GTL, in 2000. The program aims to develop a predictive understanding of microbial systems that can be used to engineer systems for bioenergy production and environmental remediation, and to understand carbon cycling and sequestration. This report provides an evaluation of the program and its infrastructure plan. Overall, the report finds that GTL's research has resulted in and promises to deliver many more scientific advancements that contribute to the achievement of DOE's goals. However, the DOE's current plan for building four independent facilities for protein production, molecular imaging, proteome analysis, and systems biology sequentially may not be the most cost-effective, efficient, and scientifically optimal way to provide this infrastructure. As an alternative, the report suggests constructing up to four institute-like facilities, each of which integrates the capabilities of all four of the originally planned facility types and focuses on one or two of DOE's mission goals. The alternative infrastructure plan could have an especially high ratio of scientific benefit to cost because the need for technology will be directly tied to the biology goals of the program.

Size Limits of Very Small Microorganisms National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Commission on Physical Sciences, Mathematics, and Applications, Steering Group for the Workshop on Size Limits of Very Small Microorganisms, 1999-09-13 How small can a free-living organism be? On the surface, this question is straightforward-in principle, the smallest cells can be identified and measured. But understanding what factors determine this lower limit, and addressing the host of other questions that follow on from this knowledge, require a fundamental understanding of the chemistry and ecology of cellular life. The recent report of evidence for life in a martian meteorite and the prospect of searching for biological signatures in intelligently chosen samples from Mars and elsewhere bring a new immediacy to such questions. How do we recognize the morphological or chemical remnants of life in rocks deposited 4 billion years ago on another planet? Are the empirical limits on cell size identified by observation on Earth applicable to life wherever it may occur, or is minimum size a function of the particular chemistry of an individual planetary surface? These questions formed the focus of a workshop on the size limits of very small organisms, organized by the Steering .Group for the Workshop on Size Limits of Very Small Microorganisms and held on October 22 and 23, 1998. Eighteen invited panelists, representing fields ranging from cell biology and molecular genetics to paleontology and mineralogy, joined with an almost equal number of other participants in a wide-ranging exploration of minimum cell size and the challenge of interpreting micro- and nano-scale features of sedimentary rocks found on Earth or elsewhere in the solar system. This document contains the proceedings of that workshop. It includes position papers presented by the individual panelists, arranged by panel, along with a summary, for each of the four sessions, of extensive roundtable discussions that involved the panelists as well as other workshop participants.

The Machinery of Life David S. Goodsell, 2013-03-09 A journey into the sub-microscopic world of molecular machines. Readers are first introduced to the types of molecules built by cells: proteins, nucleic acids, lipids, and polysaccharides. Then, in a series of distinctive illustrations, the reader is guided through the interior world of cells, exploring the ways in which molecules work in concert to perform the processes of living. Finally, the author shows us how vitamins, viruses, poisons, and drugs each have their effects on the molecules in our bodies. David Goodsell, author and illustrator, has prepared a fascinating introduction to biochemistry for the non-specialist. His book combines a lucid text with an abundance of drawings and computer graphics that present the world of cells and their components in a truly unique way.

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