

Genetics And Molecular Biology Of Streptococci Lactococci And Enterococci

"Molecular Biology: Genes to Proteins is a guide through the basic molecular processes and genetic phenomena of both prokaryotic and eukaryotic cells. Written for the undergraduate and first year graduate students within molecular biology or molecular genetics, the text has been updated with the latest data in the field. It incorporates a biochemical approach as well as a discovery approach that provides historical and experimental information within the context of the narrative."--Publisher.

Genetics today is inexorably focused on DNA. The theme of Introduction to Genetics: A Molecular Approach is therefore the progression from molecules (DNA and genes) to processes (gene expression and DNA replication) to systems (cells, organisms and populations). This progression reflects both the basic logic of life and the way in which modern biological research is structured. The molecular approach is particularly suitable for the large number of students for whom genetics is a part of a broader program in biology, biochemistry, the biomedical sciences, and biotechnology. Introduction to Genetics presents the basic facts and concepts with enough depth of knowledge to stimulate students to move on to more advanced aspects of the subject. The book is divided into three parts. Part 1 examines the function of the gene as a unit of biological information. Part 2 studies the role of the gene as a unit of inheritance. And Part 3 explores some of the areas of research that are responsible for the high profile that genetics has in our modern world, from agriculture and industry to medicine and forensics, and the ethical challenges that genetic knowledge imparts. Introduction to Genetics is available for purchase as an e-book in its entirety or as individual chapters, and as a 1-year or 6-month rental.

RNA plays a central, and until recently, somewhat underestimated role in the genetics underlying all forms of life on earth. This versatile molecule not only plays a crucial part in the synthesis of proteins from a DNA template, but is also intrinsically involved in the regulation of gene expression, and can even act as a catalyst in the form of a ribozyme. This latter property has led to the hypothesis that RNA - rather than DNA - could have played an essential part in the origin of life itself. This landmark text provides a systematic overview of the exciting and rapidly moving field of RNA biology. Key pioneering experiments, which provided the underlying evidence for what we now know, are described throughout, while the relevance of the subject to human disease is highlighted via frequent boxes. For the second edition of Molecular Biology of RNA, more introductory material has been incorporated at the beginning of the text, to aid students studying the subject for the first time. Throughout the text, new material has been included - particularly in relation to RNA binding domains, non-coding RNAs, and the connection between RNA biology and epigenetics. Finally, a new closing chapter discusses how exciting new technologies are being used to explore current topical areas of research.

Integrates biochemical, molecular, and cellular health and disease processes into one essential text! Biochemistry, Cell and Molecular Biology, and Genetics: An Integrated Textbook by Zeynep Gromley and Adam Gromley is the first to cover molecular biology, cell biology, biochemistry (metabolism), and genetics in one comprehensive yet concise resource. Throughout the book, these topics are linked to other basic medical sciences, such as pharmacology, physiology, pathology, immunology, microbiology, and histology, for a truly integrated approach. Key Highlights Easy-to-read text enhances understanding of underlying molecular mechanisms of disease Nearly 500 illustrations and tables help reinforce chapter learning objectives Textboxes throughout make connections with other preclinical disciplines End of unit high-order clinical vignette questions with succinct explanations help integrate basic science topics with clinical medicine This textbook provides a robust review for medical students preparing for courses as well as exams. Dental, pharmacy, physician's assistant, nursing, and graduate students in pre-professional/bridge programs will also find this a beneficial learning tool.

Focusing on the roles of different segments of DNA, Statistics in Human Genetics and Molecular Biology provides a basic understanding of problems arising in the analysis of genetics and genomics. It presents statistical applications in genetic mapping, DNA/protein sequence alignment, and analyses of gene expression data from microarray experiments.

Presented here is an analysis of plant development and plant metabolism using the tools of genetics and molecular biology, such as mutant analysis, mutation tagging, mapping using polymorphic characters and basic molecular biology techniques. Studies with a range of model genetic organisms, most notably maize and Arabidopsis, are included. The reader gains a comprehensive view of the subject which is more and more of both scientific and industrial interest. The value of basic research in plants is highlighted and examples where basic studies have led to applications in agricultural biotechnology are given.

Never before has it been so critical for lab workers to possess the proper tools and methodologies necessary to determine the structure, function, and expression of the corresponding proteins encoded in the genome. Mulhardt's Molecular Biology and Genomics helps aid in this daunting task by providing the reader with tips and tricks for more successful lab experiments. This strategic lab guide explores the current methodological variety of molecular biology and genomics in a simple manner, addressing the assets and drawbacks as well as critical points. It also provides short and precise summaries of routine procedures as well as listings of the advantages and disadvantages of alternative methods. Shows how to avoid experimental dead ends and develops an instinct for the right experiment at the right time Includes a handy Career Guide for researchers in the field Contains more than 100 extensive figures and tables

Guide to Yeast Genetics and Molecular Biology presents, for the first time, a comprehensive compilation of the protocols and procedures that have made *Saccharomyces cerevisiae* such a facile system for all researchers in molecular and cell biology. Whether you are an established yeast biologist or a newcomer to the field, this volume contains all the up-to-date methods you will need to study "Your Favorite Gene" in yeast. Key Features * Basic Methods in Yeast Genetics * Physical and genetic mapping * Making and recovering mutants * Cloning and Recombinant DNA Methods * High-efficiency transformation * Preparation of yeast artificial chromosome vectors * Basic Methods of Cell Biology * Immunomicroscopy * Protein targeting assays * Biochemistry of Gene Expression * Vectors for regulated expression * Isolation of labeled and unlabeled DNA, RNA, and protein

Developed as an introduction to new molecular genetic techniques, Insect Molecular Genetics also provides literature, terminology, and additional sources of information to students, researchers, and professional entomologists. Although most molecular genetics studies have employed *Drosophila*, this book applies the same techniques to other insects, including pest insects of economic importance. As a text, as a reference, as a primer, and as a review of a vast and growing literature, Insect Molecular Genetics is a valuable addition to the libraries of entomologists, geneticists, and molecular biologists. Features offered by this unique reference source: Detailed illustrations Suggested readings at the end of each chapter Glossary of

molecular genetic terms

Based on the proceedings of the Fourth AMS Conference on [title], held in Bloomington, Indiana, in 1988. Some 45 presentations on topics that include: biosynthesis of macrocyclic lactones; applications of dividing bacteria; expression of heterologous proteins in yeasts; genes for antibiotic resistance; genetic analysis and manipulation in streptomycetes. Nicely produced on coated stock. Annotation copyrighted by Book News, Inc., Portland, OR

The fission yeast *Schizosaccharomyces pombe* is the favoured tool of many productive research groups throughout the world, serving as a useful model for fundamental principles and mechanisms, such as genome organization, differential gene regulation, cell-cycle control, signal transduction, or cellular morphogenesis. This book collates the current state of knowledge derived from molecular studies in this simple eukaryotic microorganism. The entire sequence of its genome has been completed, emphasizing the comparative value and model status of this yeast. The individual chapters, highlighting up-to-date views on prominent aspects of molecular organization, were written by active research scientists, presenting the results of their investigations to other workers in neighbouring fields. This book intends to serve the fission yeast community as a handy source of reference for years to come. It will also be of particular value to the ever-increasing number of researchers starting to look into fission yeast affairs for comparative reasons from other platforms of molecular genetics and cell biology.

Biological rhythms, such as the sleep-wake cycle or circadian clock, are an intriguing aspect of biology. The regulation of daily rhythmicity has long been a mystery, up until the mid-1980's when a key gene in the fruitfly, *Drosophila melanogaster*, was molecularly identified. Genetic and molecular chronobiology of *Drosophila* has been a driving force in this field of inquiry ever since. This book describes and evaluates all of the studies of this sort, discussing the manner by which these investigations have spread out in various directions of rhythmic biology, including genetic and molecular approaches used on other insect species. * Discusses rhythm genetics in insects, from early investigations to current state-of-the-art * Presents all relevant mutants and genes * Highlights the mystery of the "clock mechanism" in full detail including the remaining puzzles to be solved

Our knowledge of the molecular biology and genetics of peas, particularly in the fields of storage product biology, genetic mapping, transformation, plant development and the rhizobium symbiosis, has increased dramatically in recent years. The pea is also a model plant for research on a number of topics including starch biosynthesis and gene regulation by light. This book contains a number of reviews on progress in various aspects of pea molecular genetics. It places them in perspective for those concerned with the breeding, agronomy and exploitation of peas and will also be of value to those working on other grain legumes. It is also an important volume for research workers and advanced students in many areas of plant sciences, especially plant genetics and biotechnology.

Advances in Genetics provides the latest information on the rapidly evolving field of genetics, presenting new medical breakthroughs that are occurring as a result of advances in our knowledge of the topic. The book continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines, critically analyzing future directions. This thematic volume focuses on the advances and the future potential of the rapidly growing field of entomopathogenic fungi. With a focus on the genetics and molecular biology behind the progress, techniques developed to study all aspects of these fungi will be highlighted, and topics will span from systematics of fungi to how a fungus infects an insect and how that insect responds. Critically analyzes future directions for the study of clinical genetics Written and edited by recognized leaders in the field Presents new medical breakthroughs that are occurring as a result of advances in our knowledge of genetics

The new edition of this popular book emphasizes the decisions that need to be made to select one procedure over another.

Cytology refers to a branch of pathology, the medical specialty that deals with making diagnoses of diseases and conditions through the examination of tissue samples from the body. Cytology, more commonly known as cell biology, studies cell structure, cell composition, and the interaction of cells with other cells and the larger environment in which they exist. The term "e;cytology"e; can also refer to Cytopathology, which analyzes cell structure to diagnose disease. Genetic testing is a type of medical test that identifies changes in chromosomes, genes, or proteins. The results of a genetic test can confirm or rule out a suspected genetic condition or help determine a person's chance of developing or passing on a genetic disorder. More than 1,000 genetic tests are currently in use, and more are being developed. Molecular Cytogenetics encompasses all aspects of chromosome biology and the application of molecular cytogenetic techniques in all areas of biomedicine, including structural and functional organization of the chromosome and nucleus, genome variation, expression and evolution, chromosome abnormalities and genomic variations in medical genetics and tumor genetics. Molecular Biology has been written with the view of presenting a coherent, enlightening work on the topic by means of which experts may approach the subject with an expert reader may approach the subject with an eager constitution. Molecular biology deals with one of the most rapidly progressing areas of biology, it remains critical for students not only to have the most current information available, but also to understand the experimental nature of contemporary research in cell and molecular biology. It is our earnest hope that this book will be of great value to all the students

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Basic Methods in Molecular Biology discusses the heart of the most recent revolution in biology—the development of the technology of genetics. The achievements in this field have simply changed what biologists do and, perhaps even more important, the way they think. Moreover, never before have scientists from such a broad range of disciplines rushed into such a small and slightly arcane field to learn and carry off a bit of the technology. This book comprises 21 chapters, opening with three introductory ones that discuss the basics of molecular biology; the tools of the molecular biologist; and general preparations, procedures, and considerations for use of the book. The following chapters then discuss cloning vectors and bacterial cells; preparation of DNA from eukaryotic cells; probing nucleic acids; plasmid DNA preparation; DNA restriction fragment preparation; purification of DNA; and preparation and analysis of RNA from eukaryotic cells. Other chapters cover preparation of DNA from bacteriophage clones; cloning DNA from the eukaryotic genome; subcloning into plasmids; M13 cloning and sequencing; further characterization of cloned DNA; transfection of mammalian cells in culture; protein methods; general methods; and specialized methods. This book will be of interest to practitioners in the fields of biology and molecular genetics.

The tools of molecular biology have revolutionised our understanding of gene structure and function and changed the teaching of genetics in a fundamental way. The transition from classical genetics to molecular genetics was initiated by two discoveries. One was the discovery that DNA has a complementary double helix structure and the other that a universal genetic code does exist. Both led to the acceptance of the central dogma that RNA molecules are made on DNA templates. The last twenty years have seen remarkable growth in our knowledge of molecular genetics, most of which is the outcome

of recombinant DNA technology. This technology which is not limited to cloning, sequencing, and expression has created a biotechnology industry of its own, the purpose of which is to develop new diagnostic and therapeutic approaches in medicine. Both industries in collaboration with the biomedical community are now engaged in laying down the foundation of molecular medicine. The present volume seeks to provide a coherent account of the new science of molecular genetics. Its content however is by no means exhaustive, partly because of the publication explosion but more because of space restrictions. A rudimentary knowledge of genetics on the reader's part is assumed. Quite understandably, considerable emphasis is placed on major technical advances but not without expounding numerous new ideas and phenomena including alternative splicing, POR, DNA methylation, genomic imprinting, and so on.

This title is directed primarily towards health care professionals outside of the United States. It starts with the origin of life and ends with the mechanisms that make muscles adapt to different forms of training. In between, it considers how evidence has been obtained about the extent of genetic influence on human capacities, how muscles and their fibres are studied for general properties and individual differences, and how molecular biological techniques have been combined with physiological ones to produce the new discipline of molecular exercise physiology. This is the first book on such topics written specifically for modules in exercise and sport science at final year Hons BSc and taught MSc levels.

Molecular Biology, Second Edition, examines the basic concepts of molecular biology while incorporating primary literature from today's leading researchers. This updated edition includes Focuses on Relevant Research sections that integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. The new Academic Cell Study Guide features all the articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. Animations provided deal with topics such as protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE. The text also includes updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA. An updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. This text is designed for undergraduate students taking a course in Molecular Biology and upper-level students studying Cell Biology, Microbiology, Genetics, Biology, Pharmacology, Biotechnology, Biochemistry, and Agriculture. NEW: "Focus On Relevant Research" sections integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. NEW: Academic Cell Study Guide features all articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. NEW: Animations provided include topics in protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE Updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA Updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. Fully revised art program

Collecting an extensive amount of information from thousands of publications by leading investigators in this rapidly developing field, this book provides a convenient and up-to-date one volume source for research in neural tumors of various cellular origins. With over 3,500 references, 110 figures and 120 tables, this volume gathers an astonishing body of knowledge regarding human neural tumors. This book is the first of its kind, encyclopedic and wide-ranging.

Numerous and charismatic, the Lepidoptera is one of the most widely studied groups of invertebrates. Advances in molecular tools and genomic techniques have reduced the need for large sizes and mass-rearing, and lepidopteran model systems are increasingly used to illuminate broad-based experimental questions as well as those peculiar to butterflies and moths. Molecular Biology and Genetics of the Lepidoptera presents a wide-ranging collection of studies on the Lepidoptera, treating them as specialized insects with distinctive features and as model systems for carrying out cutting-edge research. Leading researchers provide an evolutionary framework for placing moths and butterflies on the Tree of Life. The book covers progress in deciphering the silkworm genome and unraveling lepidopteran sex chromosomes. It features new information on sex determination, evolution, and the development of butterfly wing patterns, eyes, vision, circadian clocks, chemoreceptors, and sexual communication. The contributors discuss the genetics and molecular biology of plant host range and prospects for controlling the major crop pest genus *Helicoverpa*. They also explore the rise of insecticide resistance, the innate immune response, lepidopteran minihosts for testing human pathogens and antibiotics, and the use of intrahemocoelic toxins for control. The book concludes with coverage of polyDNA virus-carrying parasitoid wasps, and the cloning of the first virus resistance gene in the silkworm.

Understanding the biology and genetics of butterflies and moths may lead to new species-selective methods of control, saving billions of dollars in pesticide use and protecting environmental and human health—making the sections on strategies for pest management extremely important. This book will open up new paths to the research literature for a broad audience, including entomologists, evolutionary and systematic biologists, geneticists, physiologists, biochemists, and molecular biologists.

This volume provides a comprehensive description of the basic tenets of molecular biology, from mechanisms to its elaborate role in gene regulation. The initial sections cover the history of genetics and molecular biology. The book then goes on to highlight the significance of molecular approaches for all biological processes in both simple and complex cells. The volume incorporates the most recent research from this ever-evolving field. The authors have described experimental approaches wherever necessary to present evidence that has led to the development of important concepts and significant advances in molecular biology.

Molecular Biology: Academic Cell Update provides an introduction to the fundamental concepts of molecular biology and its applications. It deliberately covers a broad range of topics to show that molecular biology is applicable to human medicine and health, as well as veterinary medicine, evolution, agriculture, and other areas. The present Update includes journal specific images and test bank. It also offers vocabulary flashcards. The book begins by defining some basic concepts in genetics such as biochemical pathways, phenotypes and genotypes, chromosomes, and alleles. It explains the characteristics of cells and organisms, DNA, RNA, and proteins. It also describes genetic processes such as transcription, recombination and repair, regulation, and mutations. The chapters on viruses and bacteria discuss their life cycle, diversity, reproduction, and gene transfer. Later chapters cover topics such as molecular evolution; the isolation, purification, detection, and hybridization of DNA; basic molecular cloning techniques; proteomics; and processes such as the polymerase chain reaction, DNA sequencing, and gene expression screening. Up to date description of genetic engineering, genomics, and related areas Basic concepts followed by more detailed, specific applications Hundreds of color illustrations enhance key topics and concepts Covers medical, agricultural, and social aspects of molecular biology Organized pedagogy includes running glossaries and keynotes (mini-summaries) to hasten comprehension

This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology, or gene cloning and

expression. The techniques used in basic research and biotechnology laboratories are covered in detail. Students gain hands-on experience from start to finish in subcloning a gene into an expression vector, through purification of the recombinant protein. The third edition has been completely re-written, with new laboratory exercises and all new illustrations and text, designed for a typical 15-week semester, rather than a 4-week intensive course. The "project" approach to experiments was maintained: students still follow a cloning project through to completion, culminating in the purification of recombinant protein. It takes advantage of the enhanced green fluorescent protein - students can actually visualize positive clones following IPTG induction. Cover basic concepts and techniques used in molecular biology research labs Student-tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab "Project" approach to experiments gives students an overview of the entire process Prep-list appendix contains necessary recipes and catalog numbers, providing staff with detailed instructions

In the first edition of Genetics and Molecular Biology, renowned researcher and award-winning teacher Robert Schleif produced a unique and stimulating text that was a notable departure from the standard compendia of facts and observations. Schleif's strategy was to present the underlying fundamental concepts of molecular biology with clear explanations and critical analysis of well-chosen experiments. The result was a concise and practical approach that offered students a real understanding of the subject. This second edition retains that valuable approach--with material thoroughly updated to include an integrated treatment of prokaryotic and eukaryotic molecular biology. Genetics and Molecular Biology is copiously illustrated with two-color line art. Each chapter includes an extensive list of important references to the primary literature, as well as many innovative and thought-provoking problems on material covered in the text or on related topics. These help focus the student's attention on a variety of critical issues. Solutions are provided for half of the problems. Praise for the first edition: "Schleif's Genetics and Molecular Biology... is a remarkable achievement. It is an advanced text, derived from material taught largely to postgraduates, and will probably be thought best suited to budding professionals in molecular genetics. In some ways this would be a pity, because there is also gold here for the rest of us... The lessons here in dealing with the information explosion in biology are that an ounce of rationale is worth a pound of facts and that, for educational value, there is nothing to beat an author writing about stuff he knows from the inside."--Nature. "Schleif presents a quantitative, chemically rigorous approach to analyzing problems in molecular biology. The text is unique and clearly superior to any currently available."--R.L. Bernstein, San Francisco State University. "The greatest strength is the author's ability to challenge the student to become involved and get below the surface."--Clifford Brunk, UCLA

This book evolved from the notes for a course of the same title that we've taught for the last eighteen years at the University of Wisconsin to graduate students in cancer biology, genetics, molecular biology, and other biomedical programs. We concentrate on a class of statistical methods, so-called nonparametric statistics, which requires us to make very few assumptions regarding the model that gives rise to the data. These methods are also attractive because they are usually simple to apply and have considerable intuitive appeal.

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Practical, approachable, and perfect for today's busy medical students and practitioners, BRS Biochemistry, Molecular Biology, and Genetics, Seventh Edition helps ensure excellence in class exams and on the USMLE Step 1. The popular Board Review Series outline format keeps content succinct and accessible for the most efficient review, accompanied by bolded key terms, detailed figures, quick-reference tables, and other aids that highlight important concepts and reinforce understanding. This revised edition is updated to reflect the latest perspectives in biochemistry, molecular biology, and genetics, with a clinical emphasis essential to success in practice. New Clinical Correlation boxes detail the real-world application of chapter concepts, and updated USMLE-style questions with answers test retention and enhance preparation for board exams and beyond.

Genetics and Molecular Biology

In the Dictionary of Plant Genetics and Molecular Biology, more than 3,500 technical terms from the fields of plant genetics and molecular biology are defined for students, teachers, and researchers in universities, institutes, and agricultural research stations. An excellent educational tool that will save you time and effort, this dictionary brings together into a single source the meaning and origin of terms from the fields of classical genetics, molecular genetics, mutagenesis, population genetics, statistics, plant biotechnology, evolutionary genetics, plant breeding, and plant biotechnology. Finding and understanding the precise meaning of many terms in genetics is crucial to understanding the foundation of the subject matter. For reasons of space, the glossaries provided at the end of most textbooks are highly inadequate. There is, then, dire need for a dictionary of terms in a single volume. You'll appreciate the helpful approaches and features of Dictionary of Plant Genetics and Molecular Biology, including: no terms that are of limited use, very general, or self-explanatory cross references for effective access to the materials and economy of space alternate names of terms, denoted with "Also referred to as . . ." or "Also known as . . ." multiple definitions for terms defined by different authors or for terms with different meanings in different contexts authors who coined, described, or contributed toward further understanding of a term are listed and respective publications are included in the Bibliography At last, there is compiled in a single volume the technical terms you need to know in order to understand plant genetics and molecular biology. As your knowledge grows, you'll uncover even more terms that you need to understand. You'll find yourself turning to this handy guide time and time again for help on all levels.

The mendelian view of the world; Cells obey the laws of chemistry; A chemist's look at the bacterial cell; The importance of weak chemical interactions; Coupled reactions and group transfers; The concept of template surfaces; The arrangement of genes on chromosomes; Gene structure and function.

This book reviews the latest advances in multiple fields of plant biotechnology and the opportunities that plant genetics, genomics and molecular biology have offered for agriculture improvement. Advanced technologies can dramatically enhance our capacity in understanding the molecular basis of traits and utilizing the available resources for accelerated development of high yielding, nutritious, input-use efficient and climate-smart crop varieties. In this book, readers will discover the significant advances in plant genetics, structural and functional genomics, trait and gene discovery, transcriptomics, proteomics, metabolomics, epigenomics, nanotechnology and analytical & decision support tools in breeding. This book appeals to researchers, academics and other stakeholders of global agriculture.

The field of bacterial genetics has been restricted for many years to Escherichia coli and a few other genera of aerobic or facultatively anaerobic bacteria such as Pseudomonas, Bacillus, and Salmonella. The prevailing view up to recent times has been that anaerobic bacteria are interesting organisms but nothing is known about their genetics. To most microbiologists, anaerobic bacteria appeared as a sort of distant domain, reserved for occasional intrusions by taxonomists and medical microbiologists. By the mid-1970s, knowledge of the genetics and molecular biology of anaerobes began to emerge, and then developed rapidly. but also im This was the result of advances in molecular biology techniques, portantly because of improvements in basic techniques for culturing anaerobes and for understanding their

biochemistry and other areas of interest. Investigations in this field were also stimulated by a renewal of interest in their ecology, their role in pathology and in biotransformations, and in the search for alternative renewable sources of energy. The initial idea for this book came from Thomas D. Brock. When Dr. Brock requested my opinion about two years ago on the feasibility of publishing a book on the genetics of anaerobic bacteria, as a part of the Brock/Springer Series in Contemporary Bioscience, I answered positively but I was apprehensive about assuming the role of editor. However, I was soon reassured by the enthusiastic commitment of those I approached to contribute. Eventually, thanks to the caring cooperation of the contributors, the task became relatively easy.

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