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LOWERY JORDAN

Molecular Motors Springer Science & Business Media
A study of recent developments in molecular biology and biotechnology, including enzyme technology, genetics and various applications, for example in fermentation technology, protein technology, genetic engineering and product recovery.
In Vitro Mutagenesis OUP USA
The fourth edition of the hugely successful Principles of Molecular Virology takes on a molecular approach, presenting the principles of virology in a clear and concise manner. This work explores and explains the fundamental aspects of virology, including structure of virus particles and genome, replication, gene expression, infection, pathogenesis and subviral agents. The self-assessment questions, glossary and abbreviations section provide excellent revision aids and serve as handy references to students, tutors and researchers alike. NEW TO FOURTH EDITION: * New material on virus structure and virus evolution * Updated pathogenesis section covering Ebola, SARS and HIV * New section on Bioterrorism * Fully updated references * New material on virus structure, virus evolution, zoonoses, bushmeat, SARS and bioterrorism
Mathematics Higher Level (core) Springer
In the last decades, new experimental and numerical techniques have taken many advanced features of porous media mechanics down to practical engineering applications. This happened in areas that sometimes were not even suspected to be open to engineering ideas at all. The challenge that often faces engineers in the field of geomechanics, biomechanics, rheology and materials science is the translation of ideas existing in one field to solutions in the other. The purpose of the IUTAM symposium from which this proceedings volume has been compiled was to dive deep into the mechanics of those porous media that involve mechanics and chemistry, mechanics and electromagnetism, mechanics and thermal fluctuations of mechanics and biology. The different sections have purposely not been formed according to field interest, but on the basis of the physics involved.
Molecular Biology and Biotechnology W.B. Saunders Company
This inter-disciplinary guide to the thermodynamics of living organisms has been thoroughly revised and updated to provide a uniquely integrated overview of the subject. Retaining its highly readable style, it will serve as an introduction to the study of energy transformation in the life sciences and particularly as an accessible means for biology, biochemistry and bioengineering undergraduate students to acquaint themselves with the physical dimension of their subject. The emphasis throughout the text is on understanding basic concepts and developing problem-solving skills. The mathematical difficulty increases gradually by chapter, but no calculus is required. Topics covered include energy and its transformation, the First Law of Thermodynamics, Gibbs free energy, statistical thermodynamics, binding equilibria and reaction kinetics. Each chapter comprises numerous illustrative examples taken from different areas of biochemistry, as well as a broad range of exercises and references for further study.
Viruses: Essential Agents of Life CRC Press
Introductio to bioinformatics. Overview of structural bioinformatics. Database warehousing in bioinformatics. Modeling for bioinformatics. Pattern matching for motifs. Visualization and fractal analysis of biological sequences. Microarray data analysis.
Genomics of Chloroplasts and Mitochondria Cambridge University Press
While the choices of microbial and eukaryotic expression systems for production of recombinant proteins are many, most researchers in academic and industrial settings do not have ready access to pertinent biological and technical information since it is normally scattered throughout the scientific literature. This book closes the gap by providing information on the general biology of the host organism, a description of the expression platform, a methodological section -- with strains, genetic elements, vectors and special methods, where applicable -- as well as examples of proteins produced with the respective platform. The systems thus described are well balanced by the inclusion of three prokaryotes (two Gram-negatives and one Gram-positive), four yeasts, two filamentous fungi and two higher eukaryotic cell systems -- mammalian and plant cells. Throughout, the book provides valuable practical and theoretical information on the criteria and schemes for selecting the appropriate expression platform, the possibility and practicality of a universal expression vector, and on comparative industrial-scale fermentation, with the production of a recombinant Hepatitis B vaccine chosen as an industrial example. With a foreword by Herbert P. Schweizer, Colorado State University, USA: "As a whole, this book is a valuable and overdue resource for a varied audience. It is a practical guide for academic and industrial researchers who are confronted with the design of the most suitable expression platform for their favorite protein for technical or pharmaceutical purposes. In addition, the book is also a valuable study resource for professors and students in the fields of applied biology and biotechnology."
Guide to Research Techniques in Neuroscience Springer Science & Business Media
One of the only books to treat the whole spider, from its behavior and physiology to its neurobiology and reproductive characteristics, Biology of Spiders is considered a classic in spider literature. First published in German in 1979, the book is now in its third edition, and has established itself as the supreme authority on these fascinating creatures. Containing five hundred new references, this book incorporates the latest research while dispelling many oft-heard myths and misconceptions that surround spiders. Of special interest are chapters on the structure and function of spider webs and silk, as well as those on spider venom. A new subchapter on tarantulas will appeal especially to tarantula keepers and breeders. The highly accessible text is supplemented by exceptional, high-quality photographs, many of them originals, and

detailed diagrams. It will be of interest to arachnologists, entomologists, and zoologists, as well as to academics, students of biology, and the general reader curious about spiders.

Phage Display Springer Science & Business Media

This book is an up-to-date treatise on the most advanced and provocative research into the biosynthesis, structure, and applications of Nature’s most abundant macromolecule and renewable resource, cellulose. Molecular, biochemical, and evolutionary aspects of cellulose biosynthesis are reviewed in a variety of living organisms. First hand information from the leading researchers distinguishes this work from other books on cellulose.

Gene Cloning and Manipulation Springer Science & Business Media

In vitro mutagenesis remains a critical experimental approach for investigating gene and protein function at the cellular level. This volume provides a wide variety of updated and novel approaches for performing in vitro mutagenesis using such methods as genome editing, transposon (Tn) mutagenesis, site-directed, and random mutagenesis. In Vitro Mutagenesis: Methods and Protocols guides readers through methods for gene and genome editing, practical bioinformatics approaches for identifying mutagenesis targets, and novel site-directed and random mutagenesis approaches aimed at gaining a better understanding of protein-protein and protein-cofactor interactions. 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, In Vitro Mutagenesis: Methods and Protocols aims to provide a highly accessible and practical manual for current and future molecular biology researchers, from the beginner practitioner to the advanced investigator in fields such as molecular genetics, biochemistry, and biochemical and metabolic engineering.

IUTAM Symposium on Physicochemical and Electromechanical, Interactions in Porous Media Musee Oceanographique

Updated to reflect advances in the field, this introduction provides a broad, but concise, coverage of recombinant DNA techniques. Written for advanced undergraduates, graduates and scientists who want to use this technology, emphasis is placed on the concepts underlying particular types of cloning vectors to aid understanding and to enable readers to devise suitable strategies for novel experimental situations. An introduction to the basic biochemical principles is presented first. Then PCR and cloning using E. coli hosts and plasmid, phage and hybrid vectors are described, followed by the generation and screening of libraries and how to modify, inactivate or express cloned sequences. Finally genetic manipulation in a range of other organisms is discussed, including other bacteria, fungi, algae and plants, insects and mammals. A series of 'real-life' biological problems are also presented to enable readers to assess their understanding of the material and to prepare for exams.

First International Meeting on Microbial Phosphate Solubilization Springer Science & Business Media

Cell and Tissue Culture: Laboratory Procedures in BiotechnologyEdited by Alan Doyle Centre for Applied Microbiology &Research, Porton Down, Salisbury, UK. and J. Bryan GriffithsScientific Consultancy & Publishing, Porton, Salisbury, UK.Cell and Tissue Culture: Laboratory Procedures in Biotechnologyintroduces the reader to animal cell culture methods describing thekey cells, core techniques, how to scale up the culture forcommercial production, and regulatory aspects. This book provideseasy to follow, step-by-step protocols, with trouble-shooting tipsand notes on time considerations. Alternative procedures,background information and references supplement the mainprocedures described. Other features include: * Experimental examples to indicate expected results; * Quick reference symbols such as safety icons with warning notes;and, * A list of suppliers is provided to allow easy access tolaboratory products. Written by a team of international scientists, Cell and TissueCulture: Laboratory Procedures in Biotechnology will be of interestto researchers, technicians and process engineers using cellculture within the biotechnology, biomedicine and pharmaceuticalindustries.

Pharmaceutical Biotechnology Springer

The latest knowledge on molecular motors is vital for the understanding of a wide range of biological and medical topics: cell motility, organelle movement, virus transport, developmental asymmetry, myopathies, and sensory defects are all related to the function or malfunction of these minute molecular machines. Since there is a vast amount of information on motor mechanisms and potential biomedical and nanobiotechnological applications, this handbook fulfills the need for a collection of current research results on the functionality, regulation, and interactions of cytoskeletal, DNA, and rotary motors. Here, leading experts present a concise insight, ranging from atomic structure, biochemistry, and biophysics to cell biology, developmental biology and pathology. Basic principles and applications make this book a valuable reference tool for researchers, professionals, and clinicians alike - all set to become a "classic" in the years to come.

Metagenomics: Methods and Protocols Butterworth-Heinemann

These essays, written at the time when the Bill for Human Fertilization and Embryology Act (1990) was going through Parliament, touch on the British debate (on in vitro fertilization, gamete donation and maternal surrogacy) from an anthropological perspective. The implications of the medical developments that lay behind the Act are world-wide and these new procreative possibilities formulate new possibilities for thinking about kinship. The essays are informed by recent re-thinking of models of kinship in Melanesia.

Yeasts in Food Wiley

Genomics is a rapidly growing scientific field with applications ranging from improved disease resistance to increased rate of growth. Aquaculture Genome Technologies comprehensively covers the field of genomics and its applications to the aquaculture industry. This volume looks to bridge the gap between a basic understanding of genomic technology to its practical use in the aquaculture industry.

Bioinformatics Technologies Methods in Molecular Biology

Modern neuroscience research is inherently multidisciplinary, with a wide variety of cutting edge new techniques to explore multiple levels of investigation. This Third Edition of Guide to Research Techniques in Neuroscience provides a comprehensive overview of classical and cutting edge methods including their utility, limitations, and how data are presented in the literature. This book can be used as an introduction to neuroscience techniques for anyone new to the field or as a reference for any neuroscientist while reading papers or attending talks. Nearly 200 updated full-color illustrations to clearly convey the theory and practice of neuroscience methods Expands on techniques from previous editions and covers many new techniques including in vivo calcium imaging, fiber photometry, RNA-Seq, brain spheroids, CRISPR-Cas9 genome editing,

and more Clear, straightforward explanations of each technique for anyone new to the field A broad scope of methods, from noninvasive brain imaging in human subjects, to electrophysiology in animal models, to recombinant DNA technology in test tubes, to transfection of neurons in cell culture Detailed recommendations on where to find protocols and other resources for specific techniques "Walk-through" boxes that guide readers through experiments step-by-step

Introduction to Genomics Academic Press
The field of pharmaceutical biotechnology is evolving rapidly. A whole new arsenal of protein pharmaceuticals is being produced by recombinant techniques for cancer, viral infections, cardiovascular and hereditary disorders, and other diseases. In addition, scientists are confronted with new technologies such as polymerase chain reactions, combinatorial chemistry and gene therapy. This introductory textbook provides extensive coverage of both the basic science and the applications of biotechnology-produced pharmaceuticals, with special emphasis on their clinical use. Pharmaceutical Biotechnology serves as a complete one-stop source for undergraduate pharmacists, and it is valuable for researchers and professionals in the pharmaceutical industry as well.

Animal Dispersal John Wiley & Sons
This edition includes 90% new material reflecting advances in the field, covering natural history and diagnosis, new trends and new operations. It has more detailed information about standard operations and still covers indications and outcomes for all types of surgery.

Biosensors Cambridge University Press
With an increasing human population and a decreasing amount of arable land, creative improvements in agriculture will be a necessity in the coming decades to maintain or improve the standard of living. In Plant Chromosome Engineering: Methods and Protocols, expert researchers present techniques for the modification of crops and other plant species in order to achieve the goal of developing the much needed novel approaches to the production of food, feed, fuel, fiber, and pharmaceuticals. This volume examines vital topics such as transformation procedures, chromosome painting, production of engineered minichromosomes, gene targeting and mutagenesis, site specific integration, gene silencing, protein expression, chromosome sorting and analysis, protocols for generating chromosomal rearrangements, enhancer trapping, and means of studying chromosomes in vivo. As a part of the highly successful Methods in Molecular BiologyTM series, the methodological chapters include brief introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and professional tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Plant Chromosome Engineering: Methods and Protocols highlights the spectrum of tools currently available for modifying plant genomes and chromosomes and provides the foundation for crucial future developments.

Biology of Spiders Humana
4.1.1 Demographic significance Confined populations grow more rapidly than populations from which dispersal is permitted (Lidicker, 1975; Krebs, 1979; Tamarin et at., 1984), and demography in island populations where dispersal is restricted differs greatly from nearby mainland populations (Lidicker, 1973; Tamarin, 1977, 1978; Gliwicz, 1980), clearly demonstrating the demographic signi ficance of dispersal. The prevalence of dispersal in rapidly expanding populations is held to be the best evidence for presaturation dispersal. Because dispersal reduces the growth rate of source populations, it is generally believed that emigration is not balanced by immigration, and that mortality of emigrants occurs as a result of movement into a 'sink' of unfavourable habitat. If such dispersal is age- or sex-biased, the demo graphy of the population is markedly affected, as a consequence of differ ences in mortality in the dispersive sex or age class. Habitat heterogeneity consequently underlies this interpretation of dispersal and its demographic consequences, although the spatial variability of environments is rarely assessed in dispersal studies.

Principles of Molecular Virology John Wiley & Sons
A renaissance of virus research is taking centre stage in biology. Empirical data from the last decade indicate the important roles of viruses, both in the evolution of all life and as symbionts of host organisms. There is increasing evidence that all cellular life is colonized by exogenous and/or endogenous viruses in a non-lytic but persistent lifestyle. Viruses and viral parts form the most numerous genetic matter on this planet.