

Spase

Andreas Kuhn

Citizen in Spase. Stories / Гражданин в Космосе. Рассказы. Книга для чтения на английском языке Роберт Шекли, 2019-05-29 Предлагаем вниманию читателей сборник рассказов знаменитого американского фантаста Р. Шекли, мастера короткого рассказа, произведения которого отличают изящный парадоксальный юмор, лихо закрученный сюжет и неожиданная ударная концовка. Неадаптированный текст снабжен подробными комментариями и словарем. Книга предназначена для студентов языковых вузов и всех любителей англоязычной литературы.

Co- and Posttranslational Proteolysis of Proteins, 2001-09-28 This volume examines a number of different proteases, a type of enzyme, that are required in order for the change to a biologically active mature protein to occur. The discussion of these various proteases is rarely undertaken in one volume and will serve as a great resource for scientists studying the group of proteases on signal peptide processing as well as those working on propeptide processing. These areas of research do not normally overlap, and yet they are each of common importance to the same cell processes.

Protein Secretion and Export in Bacteria Henry C. Wu, Phang C. Tai, 2012-12-06 The last decade has witnessed rapid progress in our understanding of the mechanisms of protein export and secretion in both prokaryotic and eukaryotic cells. Studies of protein secretion across the membranes of the rough endoplasmic reticulum have led to the formulation of the now-classic signal hypothesis, which has stimulated many discussions and new ideas, and the identification of the signal recognition particle as an organelle in the initiation of the export process. However, more recent work pertaining to intragenic information related to targeting specific proteins for either secretion or membrane localization, the energetics of protein secretion, the timing of synthesis versus the initiation of export, structural requirements for the processing of precursor proteins, and the identification of the processing enzymes (signal peptidases), has been the result of a combined biochemical and genetic approach to the study of protein localization in bacteria. While reviews on the biochemistry and genetics of protein secretion have appeared frequently in recent years, this book attempts to summarize the current status and the future perspectives of this rapidly moving field in a single volume. Topics covered in this book include the genetics of protein secretion in *E. coli*, biochemical analysis of protein export in vitro, signal peptidases, excretion of colicins and hemolysin in *E. coli*, protein secretion in *Bacillus*, and protein secretion cloning vectors.

Bacterial Cell Walls and Membranes Andreas Kuhn, 2019-06-18 This book provides an up-to-date overview of the architecture and biosynthesis of bacterial and archaeal cell walls, highlighting the evolution-based similarities in, but also the intriguing differences between the cell walls of Gram-negative bacteria, the Firmicutes and Actinobacteria, and the Archaea. The recent major advances in this field, which have brought to light many new structural and functional details, are presented and discussed. Over the past five years, a number of novel systems, e.g. for lipid, porin and lipopolysaccharide biosynthesis have been described. In addition, new structural achievements with periplasmic chaperones have been made, all of which have revealed amazing details on how bacterial cell walls are synthesized. These findings provide an essential basis for future research, e.g. the development of new antibiotics. The book's content is the logical continuation of Volume 84 of SCBI (on Prokaryotic Cytoskeletons), and sets the stage for upcoming volumes on Protein Complexes.

Measuring the Composition of Cosmic Rays with the SPASE and AMANDA Detectors Kathrine Rawlins, 2001

Current Topics in Membranes and Transport, 1985-06-10 Current Topics in Membranes and Transport

Halophiles and Hypersaline Environments Antonio Ventosa, Aharon Oren, Yanhe Ma, 2011-06-24 This book presents the latest results in the exploration of halophilic bacteria, archaea, fungi and viruses. Basic and molecular aspects as well as possible biotechnological applications of halophiles are highlighted by leading scientists. Topics include: the family Halomonadaceae; the hypersaline lakes of Inner Mongolia; *Salinibacter ruber* - from genomics to microevolution and ecology; the impact of lipidomics on the microbial world of hypersaline environments; molecular mechanisms of adaptation to high salt concentration in the black yeast *Hortaea werneckii*; viruses in hypersaline environments; initiation and regulation of translation in halophilic Archaea; protein transport into and across haloarchaeal cytoplasmic membranes; protein glycosylation in *Haloferax volcanii*; the effect of anoxic conditions and temperature on gas vesicle formation in *Halobacterium salinarum*; halophiles exposed to multiple stressors; cellular adjustments of *Bacillus subtilis* to fluctuating salinities; the nature and function of carotenoids in *Halobacillus halophilus*; xanthorhodopsin; enzymatic biomass degradation by halophilic microorganisms; and enzymes from halophilic Archaea.

Protein Compartmentalization Arnold W. Strauss, Irving Boime, Günther Kreil, 2012-12-06 During the past few decades we have witnessed an era of remarkable growth in the field of molecular biology. In 1950 very little was known of the chemical constitution of biological systems, the manner in which information was transmitted from one organism to another, or the extent to which the chemical basis of life is unified. The picture today is dramatically different. We have an almost bewildering variety of information detailing many different aspects of life at the molecular level. These great advances have brought with them some breath taking insights into the molecular mechanisms used by nature for replicating, distributing, and modifying biological information. We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins, and the manner in which carbohydrates, lipids, and smaller molecules work together to provide the molecular setting of living systems. It might be said that these few decades have replaced a near vacuum of information with a very large surplus. It is in the context of this flood of information that this series of monographs on molecular biology has been organized. The idea is to bring together in one place, between the covers of one book, a concise assessment of the state of the subject in a well-defined field.

Towards The Millennium In Astrophysics - Problems And Prospects Maurice M Shapiro, Rein Silberberg, John P Wefel, 1998-12-31 This volume covers a number of areas of high energy astrophysics, focusing on the current status/understanding of the field, outstanding problems to be resolved and, in many cases, new experiments that will be providing some answers after the turn of the century. Featured are the following topics: high energy frontier, including the enigmatic observations of events beyond the cut-off energy; gamma ray bursts – local and cosmological models; high energy astrophysical neutrinos; cosmic ray matter and antimatter; solar system astrophysics; and galactic physics. The discussion is suitable for the nonexpert and expert alike.

Current Pharmaceutical Design, 1998-04

Antarctic Journal of the United States, 1995

Recent advances in genomic and genetic studies in the Archaea Frank T. Robb, Todd M. Lowe, Zvi Kelman, The accumulation of archaeal genomes has lagged significantly behind the Bacteria; however, in the last several years the coverage of the major phyla of Archaea has been significantly improved. There are now multiple genomes in

several important genera such as *Pyrobaculum*, *Sulfolobus*, *Thermococcus*/*Pyrococcus*, *Halobacterium*, *Methanosarcina*, *Methanopyrus* and *Methanocaldococcus*. Comparative genomic studies are now under way, and in many cases there are several consortial multilaboratory groups, such as the SulfoSys community, which have started to break into new systems biology initiatives. At the same time, access to streamlined genetic approaches in the genera *Sulfolobus*, *Thermococcus*, *Methanosarcina*, and *Halobacterium*/*Haloferax* has improved significantly and is leveraging the genomic information in the Archaea. The result has been that genome-driven studies of metabolism, DNA replication and repair, transcription and translation, and posttranslational processing have become more detailed and that basic research findings are burgeoning. The areas of global gene regulation, the roles of small RNAs and mechanisms of transcription and DNA replication will be focus areas in the guidelines of this Research Topic. Recently, insights into the unique characteristics of archaeal transcription and the ability to study the effects of mutation in vivo following knock-in gene replacement have resulted in incisive findings.

Targeting Signals in Protein Trafficking and Transport Markus Kunze, Andrey L. Karamyshev, Inhwan Hwang, Anastassios Economou, Nathan Alder, 2023-12-14

Crossroads Cant Mary Elizabeth Grace, Seabrook, 1997

Proteolysis in Cell Functions Väinö K. Hopsu-Havu, Mikko Järvinen, Heidrun Kirschke, 1997 The proteolytic enzymes have an essential function in all cells. Their activities are regulated by the rate of synthesis, activation of proenzymes and by the rate of synthesis of their inhibitors. They are synthesized in ribosomes like any other proteins and transported to various storage organelles or secreted from the cells and are activated in the pericellular space or in interstitium. Various cells and tissues have their characteristic enzyme patterns which serve their specific functions. Proteolytic enzymes take part and often have a regulatory role in numerous phases of cell function, e.g. cell division, migration, apoptotic as well as necrotic cell death etc. Diseases in which proteolysis has been subject of active research are e.g. cancer metastasis, viral infections, e.g. HIV, and Alzheimer's disease. They are also an essential part in any tissue remodelling, wound healing, throughout the kingdom of fauna and flora.

Handbook of Proteolytic Enzymes Alan J. Barrett, Neil D. Rawlings, J. Fred Woessner, 2012-10-30 The third edition of the Handbook of Proteolytic Enzymes is a comprehensive reference work for the enzymes that cleave proteins and peptides, written by acknowledged experts in the field and containing over 850 chapters. Each chapter is organized into sections describing the name and history, activity and specificity, structural chemistry, preparation, biological aspects, and distinguishing features for a specific peptidase. There are also introductory chapters on peptidase classification and mechanisms and a comprehensive index. For the first time, the Handbook is also available online via Elsevier's ScienceDirect platform as well as a three-volume book. The online version has enhanced options, including online multimedia, cross-referencing capabilities, integrated online delivery and closer integration with the online MEROPS database of peptidases and their inhibitors. This reference work is a must-have for biochemists, biotechnologists, molecular biologists and students in these disciplines, and will be of great interest to pharmaceutical and biotechnology companies. Contains over 830 chapters Covers new research in therapeutics and drug trials Supplies content written by experts in the field

"Spase" Rigidity and Atomic Contraction Eugene Eddlemon, 2020-02-06 A fresh look at some of the biggest challenges in physics. The theory of Spase Rigidity and Atomic Contraction provides a readily understandable mechanism for action at a distance-unifying the forces of gravity and electromagnetism and showing the influence of one on the other. It also offers a framework for understanding dark energy. Gravity and dark energy function at both the cosmic and microscopic levels, and this new theory shows why gravity is incapable of reversing the accelerated expansion of the universe caused by dark energy. The revolutionary theory of Spase Rigidity and Atomic Contraction also explains gravitational lensing, gravitational red shift, the relativistic doppler effect, and the behavior of atomic clocks in orbit as in the GPS. In addition, it provides a physical basis for inertia and shows why inertial mass and gravitational mass are not the same. Finally, the reader will gain a novel and fascinating understanding of gravitational potential energy, kinetic energy, and momentum.

The Enzymes Paul D. Boyer, Edwin G. Krebs, D. S. Sigman, 1970 Conteúdo: Structure and control.

Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition , 2012-01-09 Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Life Sciences–Bacteriology, Parasitology, and Virology. The editors have built Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Life Sciences–Bacteriology, Parasitology, and Virology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Records of Buckinghamshire , 1878

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