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Paper Microfluidics Shantanu Bhattacharya 2019-10-08

This volume provides an overview of the recent advances in the field of paper microfluidics, whose innumerable research domains have stimulated considerable efforts to the development of rapid, cost-effective and simplified point-of-care diagnostic systems. The book is divided into three parts viz. theoretical background of paper microfluidics, fabrication techniques for paper-based devices, and broad applications. Each chapter of the book is self-explanatory and focuses on a specific topic and its relation to paper microfluidics and starts with a brief description of the topic's physical background, essential definitions, and a short story of the recent progress in the relevant field. The book also covers the future outlook, remaining challenges, and emerging opportunities. This book shall be a tremendous up-to-date resource for researchers working in the area globally.

A Dictionary of Science - John Daintith 2010

Editors by John Daintith and Elizabeth Martin.

Genetics - M. Yadav 2003

Contents: Mendel and his Laws, Chromosomes, Cell Division, Meiosis, Nucleic Acids as the Genetic Material, Nucleic Acids, Replication of DNA, Ribonucleic Acid (RNA), Protein Synthesis, The Lac Operon, Genetic code, Linkage, Crossing Over, Sex Determination, Sex Linked Inheritance, Multiple Alleles, Extranuclear Inheritance, Mutation, Chromosomal Aberrations, Variations in Chromosome Number.

Computational Intelligence and Bioinformatics Deshuang Huang 2006-08-03

This book constitutes the refereed proceedings of the International Conference on Intelligent Computing, ICIC 2006, held in Kunming, China, in August 2006. The book presents 165 revised full papers, carefully reviewed. Topics covered include ant colony optimization, particle swarm optimization, swarm intelligence, autonomy-oriented computing, quantum and molecular computations, biological and DNA computing, intelligent computing in bioinformatics, intelligent computing in computational biology and drug design, computational genomics and proteomics, and more.

Molecular Biology G.P. Gupta 2004

Molecular Biology is the existing and fast moving field of science, and is condensed into but balanced review. In the last two decades the field of Molecular Biology has undergone a variable revolution leading to major advances in our understanding of cell structure and function at molecular level. The convergence of cytological genetic and biochemical approaches has generated a rich panorama of detail, the significance of which we are still attempting to unravel. The present title is being written as an introduction of this rapidly growing field. Our goal is to acquaint the undergraduate student who is encountering the subject for the first time with the fundamental principles that characterize the molecular organization of cell.

Contents: The Cell, Cell Membrane, Golgi Complex, Lysosomes, Endoplasmic Reticulum, Ribosomes, Mitochondria, Plastids, Nucleus, Cell Cycle, Nucleic Acids, Biological Replication of DNA, Ribonucleic Acid, Protein Synthesis, Gene Expression, Genetic Code.

Life - William K. Purves 2001

Authoritative, thorough, and engaging, *Life: The Science of Biology* achieves an optimal balance of scholarship and teachability, never losing sight of either the science or the student. The first introductory text to present biological concepts through the research that revealed them, *Life* covers the full range of topics with an integrated experimental focus that flows naturally from the narrative. This approach helps to

bring the drama of classic and cutting-edge research to the classroom - but always in the context of reinforcing core ideas and the innovative scientific thinking behind them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

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Algorithmic Bioprocesses - Anne Condon 2009-08-14

A fundamental understanding of algorithmic bioprocesses is key to learning how information processing occurs in nature at the cell level. The field is concerned with the interactions between computer science on the one hand and biology, chemistry, and DNA-oriented nanoscience on the other. In particular, this book offers a comprehensive overview of research into algorithmic self-assembly, RNA folding, the algorithmic foundations for biochemical reactions, and the algorithmic nature of developmental processes. The editors of the book invited 36 chapters, written by the leading researchers in this area, and their contributions include detailed tutorials on the main topics, surveys of the state of the art in research, experimental results, and discussions of specific research goals. The main subjects addressed are sequence discovery, generation, and analysis; nanoconstructions and self-assembly; membrane computing; formal models and analysis; process calculi and automata; biochemical reactions; and other topics from natural computing, including molecular evolution, regulation of gene expression, light-based computing, cellular automata, realistic modelling of biological systems, and evolutionary computing. This subject is inherently interdisciplinary, and this book will be of value to researchers in computer science and biology who study the impact of the exciting mutual interaction between our understanding of bioprocesses and our understanding of computation.

Proceedings of the ... International Symposium on Micromechatronics and Human Science - 1997

Essential Biology Neil A. Campbell 2007

"Essential Biology" is a brief non-majors biology book that combines clear writing, real-world applications, vivid art, and powerful media to teach readers the important concepts of biology and give them an appreciation for how biology relates to their everyday lives. In the Second Edition, best-selling authors Neil Campbell and Jane Reece are joined by Eric Simon, who uses his experience teaching non-majors biology to keep the book both accessible and up to date. To help readers become informed citizens, the new edition features even more human applications and up-to-date information on important issues like DNA technology, cloning, and global warming. KEY TOPICS The book covers four major biological topics: cells, genetics, evolution/diversity, and ecology and uses evolution as an overarching theme to tie all 20

chapters together. For college instructors, students, or anyone interested in biology.

Campbell Biology Australian and New Zealand Edition - Jane B. Reece 2015-05-20

Over nine successful editions, CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook. The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline. It is the only biology text and media product that helps students to make connections across different core topics in biology, between text and visuals, between global and Australian/New Zealand biology, and from scientific study to the real world. The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative, superior pedagogy, and innovative use of art and photos to promote student learning. It continues to engage students with its dynamic coverage of the essential elements of this critical discipline. This Tenth Edition, with an increased focus on evolution, ensures students receive the most up-to-date, accurate and relevant information.

Self-Production of Supramolecular Structures - G. R. Fleischaker 2012-12-06

How did life begin on the Earth? The units of life are cells, which can be defined as bounded systems of molecules that capture energy and nutrients from the environment -- systems that expand, reproduce, and evolve over time, often into more complex systems. This book is the proceedings of a unique meeting, sponsored by NATO and held in Maratea, Italy, that brought together for the first time an international group of investigators who share an interest in how molecules self-assemble into supramolecular structures, and how those structures may have contributed to the origin of life. The book is written at a moderately technical level, appropriate for use by researchers and by students in upper-level undergraduate and graduate courses in biochemistry and molecular biology. The overall interest of its subject matter provides an excellent introduction for students who wish to understand how the foundational knowledge of chemistry and physics can be applied to one of the most fundamental questions now facing the scientific community. The editors are pioneers in defining what we mean by the living state, particularly the manner in which simple molecular systems can assume complex associations and functions, including the ability to reproduce. Each chapter of the book presents an up-to-date report of highly significant research. Two of the authors received medals from the National Academy of Science USA in 1994, and other research reported in the book has been featured in internationally recognized journals such *Scientific American*, *Time*, and *Discover*.

Computational Intelligence and Intelligent Systems - Kangshun Li 2018-07-20

This two-volume set (CCIS 873 and CCIS 874) constitutes the thoroughly refereed proceedings of the 9th International Symposium, ISICA 2017, held in Guangzhou, China, in November 2017. The 101 full papers presented in both volumes were carefully reviewed and selected from 181 submissions. This second volume is organized in topical sections on swarm intelligence: cooperative Search, swarm optimization; complex systems modeling: system dynamic, multimedia simulation; intelligent information systems: information retrieval, e-commerce platforms; artificial intelligence and robotics: query optimization, intelligent engineering; virtualization: motion-based tracking, image recognition.

Essential Cell Biology - Bruce Alberts 2015-01-01

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for

lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit <http://garlandscience.rocketmix.com/>.

Machine Learning and Knowledge Discovery in Databases, Part III - Dimitrios Gunopulos 2011-09-06

This three-volume set LNAI 6911, LNAI 6912, and LNAI 6913 constitutes the refereed proceedings of the European conference on Machine Learning and Knowledge Discovery in Databases: ECML PKDD 2011, held in Athens, Greece, in September 2011. The 121 revised full papers presented together with 10 invited talks and 11 demos in the three volumes, were carefully reviewed and selected from about 600 paper submissions. The papers address all areas related to machine learning and knowledge discovery in databases as well as other innovative application domains such as supervised and unsupervised learning with some innovative contributions in fundamental issues; dimensionality reduction, distance and similarity learning, model learning and matrix/tensor analysis; graph mining, graphical models, hidden markov models, kernel methods, active and ensemble learning, semi-supervised and transductive learning, mining sparse representations, model learning, inductive logic programming, and statistical learning. a significant part of the papers covers novel and timely applications of data mining and machine learning in industrial domains.

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Methods, Models, Simulations and Approaches Towards a General Theory of Change - Franco Minati 2012

Other approaches are based on considering (1) periodic changes in structure as for processes of self-organisation; (2) non-periodic but coherent changes in structure, as for processes of emergence; (3) the quantum level of description. Papers in the book study the problem considering its transdisciplinary nature, i.e., systemic properties studied per se and not within specific disciplinary contexts. The aim of these studies is to outline a transdisciplinary theory of change in systemic properties. Such a theory should have simultaneous, corresponding and eventually hierarchical disciplinary aspects as expected for a general theory of emergence.

NEET UG Biology Paper Study Notes | Chapter Wise Note Book For NEET Aspirants | Complete Preparation Guide with Self Assessment Exercise - EduGorilla Prep Experts 2022-09-15

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- Clear exam with good grades using thoroughly Researched Content by experts.

Molecular Biology of the Cell - Bruce Alberts 2004

Oswaal ISC Question Bank Class 12 Physics, Chemistry, Biology, English Paper-1 & 2 (Set of 5 Books) (For 2023 Exam) - Oswaal Editorial Board 2022-05-26

This product covers the following: Strictly as per the Full syllabus for Board 2022-23 Exams Includes Questions of the both - Objective & Subjective Types Questions Chapterwise and Topicwise Revision Notes for in-depth study Modified & Empowered Mind Maps & Mnemonics for quick learning Concept videos for blended learning Previous Years' Board Examination Questions and Marking scheme Answers with detailed explanation to facilitate exam-oriented preparation. Examiners comments & Answering Tips to aid in exam

preparation. Includes Topics found Difficult & Suggestions for students. Includes Academically important Questions (AI) Dynamic QR code to keep the students updated for 2023 Exam paper or any further ISC notifications/circulars

Mining Intelligence and Knowledge Exploration - Rajendra Prasath 2017-04-25

This book constitutes the refereed proceedings of the 4th International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2016, held in Mexico City, Mexico, in November 2016. The 18 full papers presented were carefully reviewed and selected from 56 submissions. Accepted papers were grouped into various subtopics including information retrieval, machine learning, pattern recognition, knowledge discovery, classification, clustering, image processing, network security, speech processing, natural language processing, language, cognition and computation, fuzzy sets, and business intelligence.

The Molecules of Life - John Kuriyan 2012-07-25

The field of biochemistry is entering an exciting era in which genomic information is being integrated into molecular-level descriptions of the physical processes that make life possible. The Molecules of Life is a new textbook that provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health s

Understanding Molecular Biology - Rajiv Tyagi 2009

Comprehensive Biochemistry for Dentists - Anil Gupta 2018-12-30

This book combines fundamental concepts of biochemistry and the dental sciences to provide an authentic, coherent and comprehensive text for dental students. It describes in simple language the intricate pathophysiology of biomolecules in health and in diseases of dental and oral tissues. This book also describes the evolution of biochemistry in a chronological order, provides information about the fundamental chemical structure, classification and biological significance of biomolecules, vitamins and hormones, enriched with flow charts and diagrams for easy understanding and quick reference. It includes chapters on nucleic acids, nutrition and serum enzymes and organ function tests, and offers an innovative approach to familiarize dental students with the biochemical composition of enamel, dentine, cementum and saliva, explaining the biochemical basis of dental caries, periodontal diseases, role of fluorides in caries prophylaxis, fluoride toxicity, and the role of amino acids as anti-hypersensitive agents.

Communications, Signal Processing, and Systems - Qilian Liang 2019-08-14

This book brings together papers from the 2018 International Conference on Communications, Signal Processing, and Systems, which was held in Dalian, China on July 14-16, 2018. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications, signal processing and systems. It is aimed at undergraduate and graduate electrical engineering, computer science and mathematics students, researchers and engineers from academia and industry as well as government employees.

Plant Breeding - H.K. Jain 2012-12-06

The Indian Society of Genetics and Plant Breeding was established in 1941 in recognition of the growing contribution of improved crop varieties to the country's agriculture. Scientific plant breeding had started in India soon after the rediscovery of Mendel's laws of heredity. The Indian Agricultural Research Institute set up in 1905 and a number of Agricultural Colleges in different parts of the country carried out some of the earliest work mostly in the form of pure-line selections. In subsequent years, hybridization programmes in crops like wheat, rice, oilseeds, grain legumes, sugarcane and cotton yielded a large number of improved cultivars with significantly higher yields. A turning point came in the 1960s with the development of hybrids in several crops including inter-specific hybrids in cotton. And when new germplasm with dwarfing genes became available in wheat and rice from CIMMYT and IRRI, respectively, Indian plant breeders quickly incorporated these genes into the genetic background of the country's widely grown varieties with excellent grain quality and other desirable traits. This was to mark the beginning of modern agriculture in India as more and more varieties were developed, characterized by a high harvest index and response to modern farm inputs like the inorganic fertilizers. India's green revolution which has led to major surpluses of food grains and other commodities like sugar and cotton has been made possible by the work of one of the largest groups of plant breeders working in a coordinated network.

Genetics - Daniel L. Hartl 2009

This handbook covers all dimensions of breast cancer prevention, diagnosis, and treatment for the non-oncologist. A special emphasis is placed on the long term survivor.

Competition Science Vision - 2002-01

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Biology (Subject Code 044) CBSE Term II Exam 2021-22 for Class - XII - Sulakshana Pathak 2022-01-01

Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Biology (Subject Code 044) CBSE Term II Exam 2021-22 for Class XII As per the latest CBSE Reduced Syllabus, Design of the Question Paper, and the latest CBSE Sample Question Paper for the Board Examination to be held in 2021. The latest CBSE Sample Question Paper 2020-21 (Solved) along with the marking scheme, released by the CBSE in October 2020 for the Board Examinations to be held in 2021. 10 Sample Papers (Solved) based on the latest Reduced Syllabus, Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021. 10 Model Test Papers (Unsolved) based on the latest Reduced Syllabus, Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021. Goyal Brothers Prakashan

Biotechnology - Manju Yadav 2003

Contents: Introduction, Nucleic Acids, Replication of DNA, Protein Synthesis, Gene Expression, Nucleic Acids as the Genetic Material, Genetic Engineering, DNA Cloning, Immunogenetics, Gene Therapy, Human Genetic Disorders.

The American Biology Teacher - 1998

Advances in Electronic Engineering, Communication and Management Vol.2 - David Jin 2012-01-18

This volume presents the main results of 2011 International Conference on Electronic Engineering, Communication and Management (EECM2011) held December 24-25, 2011, Beijing China. The EECM2011 is an integrated conference providing a valuable opportunity for researchers, scholars and scientists to exchange their ideas face to face together. The main focus of the EECM 2011 and the present 2 volumes "Advances in Electronic Engineering, Communication and Management" is on Power Engineering, Electrical engineering applications, Electrical machines, as well as Communication and Information Systems Engineering. This volume presents the main results of 2011 International Conference on Electronic Engineering, Communication and Management (EECM2011) held December 24-25, 2011, Beijing China. The EECM2011 is an integrated conference providing a valuable opportunity for researchers, scholars and scientists to exchange their ideas face to face together. The main focus of the EECM 2011 and the present 2 volumes "Advances in Electronic Engineering, Communication and Management" is on Power Engineering, Electrical engineering applications, Electrical machines, as well as Communication and Information Systems Engineering.

Forensic Science - Stuart H. James 2005-02-10

Written by highly respected forensic scientists and legal practitioners, Forensic Science: An Introduction to Scientific and Investigative Techniques, Second Edition covers the latest theories and practices in areas such as DNA testing, toxicology, chemistry of explosives and arson, and vehicle accident reconstruction. This second edition offers a cutting-edge presentation of criminalistics and related laboratory subjects, including many exciting new features. What's New in the Second Edition New chapter on forensic entomology New chapter on forensic nursing Simplified DNA chapter More coverage of the chemistry of explosives and ignitable liquids Additional information on crime reconstruction Revised to include more investigation in computer forensics Complete revisions of engineering chapters New appendices showing

basic principles of physics, math, and chemistry in forensic science More questions and answers in the Instructor's Guide Updated references and cases throughout An extensive glossary of terms
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The Double Helix - James D. Watson 2011-08-16

The classic personal account of Watson and Crick's groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of *A Beautiful Mind*. By identifying the structure of DNA, the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has a scientist been so truthful in capturing in words the flavor of his work.

[Links Between Recombination and Replication](#) - Proceedings of the National Academy of Sciences 2002-09-18

There has been a sea change in how we view genetic recombination. When germ cells are produced in higher organisms, genetic recombination assures the proper segregation of like chromosomes. In the course of that process, called meiosis, recombination not only assures segregation of one chromosome of each type to progeny germ cells, but also further shuffles the genetic deck, contributing to the unique inheritance of individuals. In a nutshell, that is the classical view of recombination. We have also known for many years that in bacteria recombination plays a role in horizontal gene transfer and in replication itself, the latter by establishing some of the replication forks that are the structural scaffolds for copying DNA. In recent years, however, we have become increasingly aware that replication, which normally starts without any help from recombination, is a vulnerable process that frequently leads to broken DNA. The enzymes of recombination play a vital role in the repair of those breaks. The recombination enzymes can function via several different pathways that mediate the repair of breaks, as well as restoration of replication forks that are stalled by other kinds of damage to DNA. Thus, to the classical view of recombination as an engine of inheritance we must add the view of recombination as a vital housekeeping function that repairs breaks suffered in the course of replication. We have also known for many years that genomic instability--including mutations, chromosomal rearrangements, and aneuploidy--is a hallmark of cancer cells. Although genomic instability has many contributing causes, including faulty replication, there are many indications that recombination, faulty or not, contributes to genome instability and cancer as well. The (Nas colloquium) [Links Between Recombination and Replication: Vital Roles of Recombination](#) was convened to broaden awareness of this evolving area of research. Papers generated by this colloquium are published here. To encourage the desired interactions of specialists, we invited some contributions that deal only with recombination or replication in addition to contributions on the central thesis of functional links between recombination and replication. To aid the nonspecialist and specialist alike, we open the set of papers with a historical overview by Michael Cox and we close the set with a commentary on the meeting and the field by Andrei Kuzminov.

Genetics- Hartl 2011-08-05

Thoroughly revised and updated with the latest data from this every changing field, the Eighth Edition of *Genetics: Analysis of Genes and Genomes* provides a clear, balanced, and comprehensive introduction to genetics and genomics at the college level. Expanding upon the key elements that have made this text a

success, Hartl has included updates throughout, as well as a new chapter dedicated to genetic evolution. He continues to treat transmission genetics, molecular genetics, and evolutionary genetics as fully integrated subjects and provide students with an unprecedented understanding of the basic process of gene transmission, mutation, expression, and regulation. New chapter openers include a new section highlighting scientific competencies, while end-of-chapter Guide to Problem-Solving sections demonstrate the concepts needed to efficiently solve problems and understand the reasoning behind the correct answer.

IAS Mains Paper 3 Technology Economic Development Bio Diversity Environment, Security & Disaster Management 2020 - Mohit Sharma 2019-11-12

UPSC is considered to be the most prestigious and toughest examination in the country. In order to crack these exams one need to do heavy preparations, thorough practice and clear concepts about each and every subject. "IAS Mains General Studies Paper - 3" the most updated study material incorporated with detailed information and supported by up-to-date facts and figures. The complete coverage on each topic of the syllabus have been divided into 4 Important Units in this book. It gives the complete depiction of Indian Economy and Agriculture, Science and Technology, Biodiversity, Environment and Disaster Management, and Internal Security. This book facilitates by giving the deep coverage on all topics of the syllabus at one place with the conceptual clarity to fulfil the need and demands of the aspirants, special exam oriented structure has been given according to the UPSC syllabus, discussion of the theoretical concepts with the contemporary examples are given, Solved Papers from Solved Papers 2019-17 and 16 and 3 Practice Sets that helps in raising up level of preparation. This book acts as a great help in achieving the success for the upcoming exam. TABLE OF CONTENTS Solved Paper 2019, Solved Paper 2018, and Solved Paper 2017, Unit 1: Indian Economy and Agriculture, Unit -2: Science and Technology, Unit -3: Biodiversity, Environment and Disaster Management, Unit -4: Internal Security, Solved Paper 2016, Practice Papers (1-3).

Biological Role of Inorganic Pyrophosphate - Jukka K. Heinonen 2001-08-31

Dr. Heinonen reviews and critically evaluates the scientific literature on the biological role of inorganic pyrophosphate (PPi) published from 1940 to the end of 1999. He describes and classifies all known biochemical reactions that produce Ppi; describes and evaluates all published methods used in biological Ppi; and compiles and critically evaluates information on the concentration of Ppi (with the conclusion that, contrary to common belief, Ppi exists throughout the living world in rather high concentrations). Many reactions in which Ppi is used as a biochemical energy source instead of ATP have been described in recent decades, especially in bacteria, protists, and plants. These reactions are evaluated from the bioenergetic and regulatory points of view. Also considered is the possible role of Ppi as a source of biochemical energy in the primitive phases of life, before ATP. Data is presented on the regulatory role of Ppi in living systems, such as activities of enzymes, fidelity of syntheses of macromolecules, and proliferation of cells. Ppi may also regulate the formation and dissolution of bone as well as pathologic calcification of soft tissues and the formation of urinary stones. The formation of calcium pyrophosphate dihydrate crystals in the extracellular fluids of joints cause the disease called pseudogout. *Biological Role of Inorganic Pyrophosphate* book is a unique and invaluable source of references (about 1120) and summarized data for professionals who study or plan to study the role of Ppi in living systems. Many different branches of science (biochemistry, microbiology, bioenergetics, plant physiology, parasitology, evolution, orthopedics, rheumatology) have involvement with Ppi. This book sums up available knowledge in one place and will help scientists cross disciplinary boundaries.

[Programs, Proofs, Processes](#) - Fernando Ferreira 2010-06-27

This book constitutes the refereed proceedings of the 6th Conference on Computability in Europe, CiE 2010, held in Ponta Delgada, Azores, Portugal, in June/July 2010. The 28 revised papers presented together with 20 invited lectures were carefully reviewed and selected from 90 submissions. The papers address not only the more established lines of research of computational complexity and the interplay between proofs and computation, but also novel views that rely on physical and biological processes and models to find new ways of tackling computations and improving their efficiency.