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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.

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.

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.

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Comprising of 400 MCQs, this book provides essential revision content to help you pass the recently introduced MRCPsych Paper A. The most recent guidelines for the new curriculum have been followed in compiling the content. MCQs for the New MRCPsych Paper A with Answers Explained is an invaluable aid for all candidates for the examination of the Royal College of Psychiatrists. Other clinicians and undergraduate students in medicine and health sciences will also find it useful.

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.

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.

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.

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.

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

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coordinated network.

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.

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.

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.

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

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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

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.

This best-selling dictionary contains 9,200 entries on all aspects of chemistry, physics, biology (including human biology), earth sciences, and astronomy. This new edition includes expanded coverage of global warming, forensic science, astrophysics, quantum theory, and the solar system. Supported by over 200 diagrams and illustrations the dictionary features recommended web links for many entries, accessed and kept up-to-date via the Dictionary of Science companion website. Other features include short biographies of leading scientists, full page illustrated features on subjects such as the Solar System and Genetically Modified Organisms, and chronologies of specific scientific subjects including plastics, electronics, and cell biology. Both concise and wide-ranging, this dictionary is an ideal reference work for students and a great introduction for non-scientists.

Molecular Biology of the Cell The Double Helix A Personal Account of the Discovery of the Structure of DNA Simon and Schuster

This book constitutes the refereed proceedings of the 5th International Conference on Reversible Computation, RC 2013, held in Victoria, BC, Canada, in July 2013. The 19 contributions presented together with one invited paper were carefully reviewed and selected from 37 submissions. The papers are organized in topical sections on physical implementation; arithmetic; programming and data structures; modelling; synthesis and optimization; and alternative technologies.

The "Gold Standard" in Biochemistry text books, Biochemistry 4e, is a modern classic that has been thoroughly revised. Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution. Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge.

Noboru Hirota has produced a major historical analysis of how the field of chemistry has evolved over centuries. Spanning more than eight hundred pages, this book presents an exhaustive study of the field, showing how ground-breaking discoveries were made and innovative theories were constructed, with personal portrayals and interesting anecdotes of pioneering scholars. Positioning chemistry carefully within the natural sciences, the author rejects the traditional separation of physics, chemistry and biology, defines chemistry broadly as the 'science of atoms and molecules,' and traces its dynamic history with an emphasis on 20th century developments and more recent findings. Professor

Hirota himself has spearheaded research in physical chemistry for more than four decades in Japan and the United States, with cutting-edge engagement with magnetic resonance, spectroscopy, and photochemistry. This publication invites specialized researchers to traverse the pathways along which the subject developed into its present form and to understand how their own research fits into the broad scope of science as a whole. *****Chosen as an Outstanding Academic Title for 2017 by Choice Magazine!! In addition, the Choice subject editors have chosen "A History of Modern Chemistry" as one of their top favorite 25 titles! ****"There are many books on the history of chemistry, but few that provide a comprehensive overview of the field up to the modern day. This book admirably fills that need. Overall, this is an excellent book and is strongly recommended." --Choice, Vol. 54, No. 7, March 2017 [Subject: History of Science, Chemistry

As the ground war in Vietnam escalated in the late 1960s, the US government leveraged the so-called doctor draft to secure adequate numbers of medical personnel in the armed forces. Among newly minted physicians' few alternatives to military service was the Clinical Associate Training Program at the National Institutes of Health. Though only a small percentage of applicants were accepted, the elite program launched an unprecedented number of remarkable scientific careers that would revolutionize medicine at the end of the twentieth century. Medal Winners recounts this overlooked chapter and unforeseen byproduct of the Vietnam War through the lives of four former NIH clinical associates who would go on to become Nobel laureates. Raymond S. Greenberg traces their stories from their pre-NIH years and apprenticeships through their subsequent Nobel Prize-winning work, which transformed treatment of heart disease, cancer, and other diseases. Greenberg shows how the Vietnam draft unintentionally ushered in a golden era of research by bringing talented young physicians under the tutelage of leading scientists and offers a lesson in what it may take to replicate such a towering center of scientific innovation as the NIH in the 1960s and 1970s.

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

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.

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. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

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.

An Indispensable Roadmap for Nucleic Acid Preparation Although Friedrich Miescher described the first isolation of nucleic acid in 1869, it was not until 1953 that James Watson and Francis Crick successfully deciphered the structural basis of DNA duplex. Needless to say, in the years since, enormous advances have been made in the study of nucleic acids, and these have become a cornerstone for all branches of modern biological sciences. The Handbook of Nucleic Acid Purification provides researchers and students with an all-encompassing volume on nucleic acid extraction strategies. Due to the complexities within prokaryotic and eukaryotic cells, purification of the nucleic acids often forms a vital first step in the study of molecular biology of living organisms as well as in the evolutionary/phylogenetic analysis of ancient specimens. Bringing together contributions from leading researchers, the handbook presents a comprehensive catalog of nucleic acid isolation methods. It includes dedicated sections on strategies for viruses, bacteria, fungi, parasites, insects, mammals, and plants, as well as for ancient samples, with an additional emphasis on sample preparation methods for direct molecular applications. Each chapter in this handbook: Explores the biological background important to understanding specific organisms and specimens Reviews principles and current techniques for efficient isolation Discusses challenges and future trends relating to improved recovery of nucleic acids Besides providing an updated, reliable reference for anyone with an interest in molecular biology, this book offers a practical guide for clinical, forensic, and research scientists involved in molecular analysis of biological specimens. It also constitutes a convenient resource for students in other areas of biological sciences, and an indispensable roadmap for both new and experienced researchers wishing to acquire or sharpen their skills in nucleic acid preparation.

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).

This book disseminates information on paper-based diagnostics devices and describes novel paper materials, fabrication techniques, and Basic Paper-based microfluidics/electronics theory. The section on sample preparation, paper-based electronics/sensors for developing paper-based point-of-care (POC) systems also contains detailed descriptions. In the application sections this book covers sensing technique for DNA/RNA, bacteria/virus and integration of lateral flow assay. The book provides deep understanding and knowledge of paper-based diagnostic device development in terms of concept, materials, fabrication and applications.

Based on the Second Edition of Marks' Basic Medical Biochemistry: A Clinical Approach, Marks' Essentials of Medical Biochemistry has been streamlined to focus on only the most essential biochemical concepts important to medical students. The authors present facts and pathways to emphasize how the underlying biochemistry is related to the body's overall physiological functions. This text presents patients to the students as the biochemistry is being discussed, which strengthens the link between biochemistry and medicine and allows the student to learn about this interaction as the biochemistry is presented. Each chapter includes clinical and biochemical notes and comments, questions and answers to encourage further thinking, and suggested references for those who would like to pursue a particular topic in more depth.

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.

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.

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.

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

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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/>.

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