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Coronavirus Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response (volume I.C)

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What AI Can Do

Innovative Therapies in Bone Biology: What can be Learned From Rare Bone Diseases?

Inflammation and organic damage in COVID-19: What have we learned 2 years into the pandemic?

Public Documents of Massachusetts
Artificial Neural Networks and Machine Learning - ICANN 2023
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Smart Energy, Plasma and Nuclear Systems Lippincott Williams & Wilkins

Stem Cells: An Alternative Therapy for COVID-19 and Cytokine Storm provides mechanistic insights into the role of stem cells to combat COVID-19 outbreak and other pathologies where cytokines storm is the cause of concern for e.g., radiation exposure, multiple organ failure and sepsis. There has been an increase in number of cases of new diseases in the last decade, including mucormycosis, Zika virus, H1N1 influenza virus, among others. These diseases can be characterized by the induction of

cytokine storm, which is mainly responsible for morbidity and mortality. Stem cell therapy has emerged as a potential treatment for viral diseases, including, but not limited to, COVID-19. Interestingly, clinical trials in patients with COVID-19 complications depicted faster recovery in patients post mesenchymal stem cells therapy owing to the decreased cytokines levels, anti-viral effects and regeneration of the infected tissue. Evaluates the role of MSCs to combat cytokine storm, the challenges regarding COVID-19 therapy and how they can be countered using stem cells, and the risk of opportunistic infections post COVID-19 Presents how stem cell therapy has emerged as a potential treatment for viral diseases, including, but not limited to, COVID-19 Provides a detailed understanding of the novel coronavirus, with an emphasis on therapeutic aspects

Chartered Mechanical Engineer John Wiley & Sons

The most important fact about the coronavirus pandemic that turned the world upside down in 2020 is that our response to it has been an epic overreaction driven by a disastrous confluence of public and private interests—all of them purporting to “follow the science.” Since the lockdowns began, millions of Americans have relied on the reporting of Alex Berenson. Exposing the hysteria and manipulation behind the worst failure of public policy since World War I, this clear-eyed journalist has been a critical source of reason and truth. The product of relentless investigation and research, *Pandemia* explains how an illness that many people will never even know they had became the occasion for economically ruinous lockdowns and the suppression of personal freedom on a previously unimaginable scale.

Dispassionate, factual, and untainted by any agenda other than telling the truth, this is the account that pandemic-weary Americans desperately need.

Development of COVID-19 Therapies: Lessons Learnt and Ongoing Efforts Springer Nature

The double volumes LNCS 12391-12392 constitutes the papers of the 31st International Conference on Database and Expert Systems Applications, DEXA 2020, which will be held online in September 2020. The 38 full papers presented together with 20 short papers plus 1 keynote papers in these volumes were carefully reviewed and selected from a total of 190 submissions.

What's Cooking Frontiers Media SA

Description of the Product •Latest Board Examination Paper-2024 with Board Model Answer •Strictly as per the Revised Textbook, syllabus, blueprint & design of the question paper •Latest Board-

specified typologies of questions for exam success •Perfect answers with Board Scheme of Valuation •Handwritten Topper's Answers for exam-oriented preparation •KTBS Textbook Questions fully solved •Crisp revision with Revision notes and Mind maps •Hybrid learning with best in class videos •2 Model Papers (solved) for Examination Practice •3 Online Model Papers *Information Security Practice and Experience* Frontiers Media SA This book constitutes the refereed proceedings of the 17th International Conference on Information Security Practice and Experience, ISPEC 2022, held in Taipei, Taiwan, in November 2022. The 33 full papers together with 2 invited papers included in this volume were carefully reviewed and selected from 87 submissions. The main goal of the conference is to promote research on new information security technologies, including their applications and their integration with IT systems in various vertical sectors.

Congress on Intelligent Systems Elsevier Health Sciences

Named a Financial Times Best Book of 2021 An energy expert shows why hydrogen can fight climate change and become the fuel of the future We're constantly told that our planet is in crisis; that to save it, we must stop traveling, stop eating meat, even stop having children. But in *The Hydrogen Revolution*, Marco Alverà argues that we don't need to upend our lives. We just need a new kind of fuel: hydrogen. From transportation and infrastructure to heating and electricity, hydrogen could eliminate fossil fuels, boost economic growth, and encourage global action on climate change. It could also solve the most bedeviling aspects of today's renewable energy—from transporting and storing wind and solar energy and their vulnerability to weather

changes to the inefficiency and limited utility of heavy, short-lasting batteries. The Hydrogen Revolution isn't just a manifesto for a powerful new technology. It's a hopeful reminder that despite the gloomy headlines about the fate of our planet, there's still an opportunity to turn things around.

Project Independence Blueprint Springer Nature

Written and edited by world-renowned experts in the field, Benzel's Spine Surgery: Techniques, Complication Avoidance and Management, 5th Edition, provides expert, step-by-step guidance on the evaluation and management of disorders of the spine. This definitive, two-volume work explores the full spectrum of techniques used in spine surgery, giving you the tools you need to hone your skills and increase your knowledge in this challenging area. Clearly organized and extensively revised throughout, it features contributions from both neurosurgeons and orthopaedic surgeons to present a truly comprehensive approach to spine disease. Offers a thorough overview of the effective management of patients with spinal disorders, including fundamental principles, biomechanics, applied anatomy, instrumentation, pathophysiology of spinal disorders, surgical techniques, motion preservation strategies, non-surgical management, and complication avoidance and management, as well as controversies. Focuses on both pathophysiology and surgical treatment of spine disease, with an increased emphasis on minimally invasive surgery. Contains new features such as key points boxes at the beginning of chapters and algorithms to help streamline the decision making process. Covers today's hot topics in spine surgery, such as health economics, artificial intelligence, predictive analytics, new less invasive techniques

including endoscopic spine surgery, and the future of spine surgery. Provides expert coverage of key topics including biomechanics of motion preservation techniques, spinal injuries in sports, biologics in spine fusion surgery, anterior sub-axial cervical fixation and fusion techniques, complex lumbosacropelvic fixation techniques, and many more. Features more than 1,500 high-quality illustrations, as well as new procedural videos on en bloc spondylectomy, minimally invasive endoscopic posterior cervical foraminotomy, cervical total disc replacement, minimally invasive lumbar decompression of stenosis, and more.

Pandemia CRC Press

The digital agriculture revolution holds a promise to build an agriculture and food system that is efficient, environmentally sustainable, and equitable, one that can help deliver the Sustainable Development Goals. Unlike past technological revolutions in agriculture, which began on farms, the current revolution is being sparked at multiple points along the agrifood value chain. The change is driven by the ability to collect, use, and analyze massive amounts of machine-readable data about practically every aspect of the value chain, and by the emergence of digital platforms disrupting existing business models. All this allows for drastically reduced transaction costs and pervasive information asymmetries that plague the agrifood system. The success of the digital transformation, however, is not guaranteed as the risks it brings are numerous, including those related to data governance and inadequate competition within and between digital platforms. What's Cooking: Digital Transformation of the Agrifood System investigates how digital

technologies can accelerate the transformation of the agrifood system by increasing efficiency on the farm; improving farmers' access to output, input, and financial markets; strengthening quality control and traceability; and improving the design and delivery of agriculture policies. It also identifies a key role for the public sector in maximizing the benefits of this process while minimizing its risks, through enabling an innovation ecosystem featuring open datasets, digital platforms, digital entrepreneurship, digital payment systems, and digital skills and encouraging equitable technology adoption.

Stem Cells Springer Nature

Volume I.C An outbreak of a respiratory disease first reported in Wuhan, China in December 2019 and the causative agent was discovered in January 2020 to be a novel betacoronavirus of the same subgenus as SARS-CoV and named severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Coronavirus disease 2019 (COVID-19) has rapidly disseminated worldwide, with clinical manifestations ranging from mild respiratory symptoms to severe pneumonia and a fatality rate estimated around 2%. Person to person transmission is occurring both in the community and healthcare settings. The World Health Organization (WHO) has recently declared the COVID-19 epidemic a public health emergency of international concern. The ongoing outbreak presents many clinical and public health management challenges due to limited understanding of viral pathogenesis, risk factors for infection, natural history of disease including clinical presentation and outcomes, prognostic factors for severe illness, period of infectivity, modes and extent of virus inter-human transmission, as well as effective preventive

measures and public health response and containment interventions. There are no antiviral treatment nor vaccine available but fast track research and development efforts including clinical therapeutic trials are ongoing across the world. Managing this serious epidemic requires the appropriate deployment of limited human resources across all cadres of health care and public health staff, including clinical, laboratory, managerial and epidemiological data analysis and risk assessment experts. It presents challenges around public communication and messaging around risk, with the potential for misinformation and disinformation. Therefore, integrated operational research and intervention, learning from experiences across different fields and settings should contribute towards better understanding and managing COVID-19. This Research Topic aims to highlight interdisciplinary research approaches deployed during the COVID-19 epidemic, addressing knowledge gaps and generating evidence for its improved management and control. It will incorporate critical, theoretically informed and empirically grounded original research contributions using diverse approaches, experimental, observational and intervention studies, conceptual framing, expert opinions and reviews from across the world. The Research Topic proposes a multi-dimensional approach to improving the management of COVID-19 with scientific contributions from all areas of virology, immunology, clinical microbiology, epidemiology, therapeutics, communications as well as infection prevention and public health risk assessment and management studies.

The Hydrogen Revolution Springer Nature

Massive experimental, computational, and clinical studies have

been performed worldwide, and are still ongoing, to understand and characterize Covid-19 molecular basis and transmission mechanisms, to develop diagnostics and vaccines, and to search for small chemical drug candidates and therapeutic proteins and peptides. Impressive results have been obtained for transmission control and vaccines so far, but what is the status of the other therapeutic options? The crisis has exposed different types of weaknesses in biomedical research in many countries. What can we learn from this crisis in the field of drug discovery and development so as to emerge stronger? The Covid-19 crisis has revealed the strengths of modern drug discovery and vaccine development but also exposed different types of weaknesses that would need to be addressed to be better prepared for a possible next global health crisis. These challenges/weaknesses/obstacles are of very different nature and as such hard to tackle. For instance, in addition to the inherent challenging nature of the scientific discovery, some scientists have mentioned insufficient local/national coordination and observed a fragmented drug discovery research, others have underlined a lack of coordination between the academic system and the private sector, an inadequate international global coordination and cooperation, others highlighted insufficient infrastructures, inappropriate financial supports, limited discussions between the scientific community performing the research and the public health authorities, decision makers and the society, while some remarked insufficient education/training about drug discovery and development leading to confusion... The crisis also raised important scientific questions about the technologies that would need to be used during an emergency situation, combined,

integrated, or developed so as to accelerate the identification of small molecule drug candidates and of therapeutic peptides/proteins.

Principles of Management Oswaal Books

Geologic Time Scale 2020 (2 volume set) contains contributions from 80+ leading scientists who present syntheses in an easy-to-understand format that includes numerous color charts, maps and photographs. In addition to detailed overviews of chronostratigraphy, evolution, geochemistry, sequence stratigraphy and planetary geology, the GTS2020 volumes have separate chapters on each geologic period with compilations of the history of divisions, the current GSSPs (global boundary stratotypes), detailed bio-geochem-sequence correlation charts, and derivation of the age models. The authors are on the forefront of chronostratigraphic research and initiatives surrounding the creation of an international geologic time scale. The included charts display the most up-to-date, international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences. As the framework for deciphering the history of our planet Earth, this book is essential for practicing Earth Scientists and academics. • Completely updated geologic time scale • Provides the most detailed integrated geologic time scale available that compiles and synthesizes information in one reference • Gives insights on the construction, strengths and limitations of the geological time scale that greatly enhances its function and its utility

Wireless Internet World Bank Publications

This textbook describes in detail the process of cancer metastasis

from a single cell in the primary site through its arduous journey to the sentinel lymph node as the main gateway and beyond to distant sites. The most up-to-date knowledge on key topics in the molecular biology, diagnosis, and treatment of metastatic cancer is highlighted by a large panel of experts. The book begins with a comprehensive overview of the genetic and molecular mechanisms that promote or inhibit cancer metastasis through lymphatic pathways to lymph nodes or through vascular pathways to distant sites, providing the reader with an essential basic knowledge. This is followed by further details on the role of the immune system within the primary tumor and the lymph node and the importance of the microenvironment at the metastatic site. The role of the sentinel lymph node in cancer metastasis is emphasized. Special attention is also given to state-of-the-art imaging techniques for the detection of early-stage cancer and cancer metastases, as well as the use of liquid biopsies in sarcoma, prostate, gastrointestinal, and lung cancer. Clinical patterns of malignant tumors arising in different organ systems are compared, described, and discussed with the goal of determining what similarities and/or differences exist. The book concludes with a detailed discussion of surgical intervention, radiation, and systemic therapy of primary and metastatic cancer, and briefly previews several emerging topics, such as the latest findings on personalized cancer therapy, cancer stem cells, unique molecular mechanisms of virus-induced cancer, the impact of the microbiome on cancer metastasis and the application of artificial intelligence in cancer metastasis research. By providing fundamental knowledge of the biological and clinical aspects of cancer metastasis, this book will be an important

reference for cancer researchers, clinical oncologists, teachers, and students. Written by experts in the field, each chapter includes a summary of the chapter's key points and open-ended questions that address pressing issues in the field and encourage the reader to consider future directions.

Handbook of Biometric Anti-Spoofing SAGE

Engineering Agricultural and Medical Common Entrance Test (EAMCET) is an entrance examination conducted in some Engineering and Medical Colleges by Jawaharlal Nehru Technological University every year. The new edition of Arihant's "Telangana EAMCET Engineering 5 Years' Solved Papers [2019-2015]" has been prepared as per the latest question papers of the examination. This book provides the best study material to the candidates who were preparing for this examination. It gives the complete coverage to the syllabus by providing the last 5 years question papers from 2019 to 2015, Online coverage of 2019 & 2018 Papers and web links are provided for EAMCET Solved Papers [2014-2001] so that students can download it and study from anywhere at any point of time. Moreover, solution of each question is well explained with details which helps the candidates to understand better. Thorough practice done from this book ensures good ranking and selection in the top colleges and institutions. TABLE OF CONTENT AP EAMCET Solved Papers [2019-2015] (Shift 1 & 2), EAMCET Solved Papers 2014-2001 (Weblinks)

Recent highlights in molecular medicine CRC Press

The 10-volume set LNCS 14254-14263 constitutes the proceedings of the 32nd International Conference on Artificial Neural Networks and Machine Learning, ICANN 2023, which took

place in Heraklion, Crete, Greece, during September 26–29, 2023. The 426 full papers, 9 short papers and 9 abstract papers included in these proceedings were carefully reviewed and selected from 947 submissions. ICANN is a dual-track conference, featuring tracks in brain inspired computing on the one hand, and machine learning on the other, with strong cross-disciplinary interactions and applications.

Geologic Time Scale 2020 MDPI

This heavily revised second edition covers minimally invasive and open surgical techniques for treating a variety of common and rare of cervical pathologies. Extensively revised chapters detail how to successfully perform a variety of the latest procedures for conditions including cervical spine fractures, cervical tumours and cranio cervical anomalies. Guidance on the appropriate techniques for decompression and fusion with cages and autologous bone graft are also described. Cervical Spine: Minimally Invasive and Open Surgery satisfies the need for a multi-disciplinary text covering open and minimally invasive techniques available for treating ailments of the cervical spine. Practicing and trainee orthopedic surgeons, neurosurgeons, radiologists, anesthesiologists and pain management specialists will all find the content of this work to be of a great help to them when seeking guidance on the latest advances in the field.

Database and Expert Systems Applications Springer Nature Maintenance combines various methods, tools, and techniques in a bid to reduce maintenance costs while increasing the reliability, availability, and security of equipment. Condition-based maintenance (CBM) is one such method, and prognostics forms a key element of a CBM program based on mathematical models

for predicting remaining useful life (RUL). Prognostics and Remaining Useful Life (RUL) Estimation: Predicting with Confidence compares the techniques and models used to estimate the RUL of different assets, including a review of the relevant literature on prognostic techniques and their use in the industrial field. This book describes different approaches and prognosis methods for different assets backed up by appropriate case studies. FEATURES Presents a compendium of RUL estimation methods and technologies used in predictive maintenance Describes different approaches and prognosis methods for different assets Includes a comprehensive compilation of methods from model-based and data-driven to hybrid Discusses the benchmarking of RUL estimation methods according to accuracy and uncertainty, depending on the target application, the type of asset, and the forecast performance expected Contains a toolset of methods and a way of deployment aimed at a versatile audience This book is aimed at professionals, senior undergraduates, and graduate students in all interdisciplinary engineering streams that focus on prognosis and maintenance.

Reviews in Cancer Genetics Simon and Schuster

The philosopher Spinoza once asserted that no one knows what a body can do, conceiving an intrinsic bodily power with unknown limits. Similarly, we can ask ourselves about Artificial Intelligence (AI): To what extent is the development of intelligence limited by its technical and material substrate? In other words, what can AI do? The answer is analogous to Spinoza's: Nobody knows the limit of AI. Critically considering this issue from philosophical, interdisciplinary, and engineering perspectives, respectively, this

book assesses the scope and pertinence of AI technology and explores how it could bring about both a better and more unpredictable future. What AI Can Do highlights, at both the theoretical and practical levels, the cross-cutting relevance that AI is having on society, appealing to students of engineering, computer science, and philosophy, as well as all who hold a practical interest in the technology.

Computer Vision - ECCV 2020 YOUTH COMPETITION TIMES

Offering a thorough, accessible overview of the basic science and clinical data regarding the virus that causes COVID-19, Molecular Biology of SARS-CoV-2 is an excellent resource for researchers, clinical scientists, physicians, and students. This volume offers in-depth, extended content that originated with Drs. Roberto Patarca's and William A. Haseltine's chapter in The COVID-19 Textbook, edited by Dr. Haseltine and Dr. Patarca. The greatly expanded material in this text provides a much-needed primer in this complex area.

Physics Unsolved Papers Basic Books

The extended papers in this Special Issue cover the topics of smart energy, nuclear systems, and micro energy grids. In "Electrical Loads and Power Systems for the DEMO Nuclear Fusion Project" and "Energy Analysis for the Connection of the Nuclear Reactor DEMO to the European Electrical Grid", the authors introduce a European DEMO project. In "Comparison and Design of Resonant Network Considering the Characteristics of a Plasma Generator" the authors present a theoretical analysis and experimental study on the resonant network of the power conditioning system (PCS). In "Techno-Economic Evaluation of Interconnected Nuclear-Renewable Micro Hybrid Energy Systems

with Combined Heat and Power", the authors conducted a sensitivity analysis to identify the impact of the different variables on the investigated systems. In "Fault Current Tracing and Identification via Machine Learning Considering Distributed Energy Resources in Distribution Networks", the authors propose a current tracing method to model the single distribution feeder as several independent parallel connected virtual lines, with the result of tracing the detailed contribution of different current sources to the power line current. From the five extended papers, we observe that the SEGE is actively engaged in smart grid and green energy techniques. We hope that the readers enjoy this Special Issue.

Telangana EAMCET Engineering 5 Years Solved Papers 2020 World Scientific

There is now widespread understanding that business and management must evolve and act responsibly in the world giving full consideration to people and planet, not just profit. Principles of Management: Practicing Ethics, Sustainability, Responsibility was the first official textbook of the United Nations global initiative network, Principles for Responsible Management Education (PRME). Now fully revised and updated with three brand new chapters on communicating, innovating and leading, this accessible and engaging textbook provides an introduction to management while empowering you to think ethically and sustainably in order to become a responsible manager. It also includes essential workplace skills for the 21st century and coverage of the various management occupations that you will go on to fill after your studies. Exclusive interviews with management pioneers and professionals help bring theories and

concepts to life throughout the text as do the all new case studies which include Lego, Patagonia and Greta Thunberg. Worksheets and exercises make for an active learning experience alongside the supporting online resources provided to your lecturer for dissemination. The textbook includes coverage of the UN's

Sustainable Development Goals (SDGs) which are central to business education and practice today. It can be used for introductory management courses as well as courses that cover business ethics, business and society, corporate social responsibility (CSR), sustainability and responsible management.

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