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Environmental Nanotechnology Volume 3 Nandita Dasgupta, Shivendu Ranjan, Eric Lichtfouse, 2019-11-18 This third volume on environmental nanotechnology includes chapters dealing with topics such nanoremediation waste water purification nanosensors nanomedicine and nanofiltration It also highlights the safety aspects and risk assessment and management related to several toxins as well as nanotechnology related solutions for these challenges The book also discusses new nanomaterials from the nexus of environment water remediation and total environment *NK Cell-Based Cancer Immunotherapy* Francisco Borrego, Susana Larrucea, Rafael Solana, Raquel Tarazona, 2016-09-08 Natural killer NK cells are innate lymphoid cells that have a significant role in regulating the defenses against cancer development and certain viral infections They are equipped with an array of activating and inhibitory receptors that stimulate or diminish NK cell activity respectively Inhibitory receptors include among others the MHC class I ligands killer cell immunoglobulin like receptors KIR in humans and members of the Ly49 family of receptors in mice and CD94 NKG2A Activating receptors include cytokine and chemokine receptors and those that interact with ligands expressed on target cells such as the natural cytotoxicity receptors or NCRs NKp30 NKp44 and NKp46 NKG2D CD244 and DNAM 1 In addition NK cells express Fc RIIIA or CD16 the receptor that exerts antibody dependent cell mediated cytotoxicity ADCC NK cells also express the death ligands FasL and TRAIL The killing or sparing of target cells depends on the integration of distinct signals that originate from NK cell receptors NK cells spare healthy cells that express normal levels of MHC class I molecules and low amounts of stress induced self molecules whereas they kill target cells that down regulate MHC class I molecules and or up regulate stress induced self molecules The latter are common signatures of virus infected cells and tumors All the accumulated knowledge on NK cell biology along with many clinical observations is driving multiple efforts to improve the arsenal of NK cell based therapeutic tools in the fight against malignant diseases Indeed NK cell based immunotherapy is becoming a promising approach for the treatment of many cancers It is well known that NK cells have a significant role in the anti tumor effect of therapeutic antibodies that use ADCC as a mechanism of action In addition to this administration of autologous and allogeneic NK cells after activation and expansion ex vivo is used in the treatment of cancer Moreover adoptive transfer of NK cell lines has been tested in humans and genetically modified NK cells expressing chimeric antigen receptors are being studied in preclinical models for potential use in the clinic **Bispecific Antibodies for T-Cell Based Immunotherapy** Brian H. Santich, Nai-Kong Cheung, Christian Klein, 2021-01-21 CK is affiliated with the Roche Innovation Center Zurich holds stocks and has patents with Hoffmann La Roche company NKC reports receiving commercial research grants from Y mabs Therapeutics and Abpro Labs Inc holding ownership interest equity options in Y Mabs Therapeutics Inc and in Abpro Labs and owning stock options in Eureka Therapeutics NKC is the inventor of pending and issued patents filed by MSK including hu3F8 and 8H9 licensed to Ymabs Therapeutics beta glucan to Biotec Pharmacon and HER2 bispecific antibody to Abpro labs

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2-Oxoglutarate-Dependent Oxygenases
 Christopher J Schofield, Robert Hausinger, 2015-04-23 Since the discovery of the first examples of 2 oxoglutarate dependent oxygenase catalysed reactions in the 1960s a remarkably broad diversity of alternate reactions and substrates has been revealed and extensive advances have been achieved in our understanding of the structures and catalytic mechanisms These enzymes are important agrochemical targets and are being pursued as therapeutic targets for a wide range of diseases including cancer and anemia This book provides a central source of information that summarizes the key features of the essential group of 2 oxoglutarate dependent dioxygenases and related enzymes Given the numerous recent advances and biomedical interest in the field this book aims to unite the latest research for those already working in the field as well as to provide an introduction for those newly approaching the topic and for those interested in translating the basic science into medicinal and agricultural benefits The book begins with four broad chapters that highlight critical aspects including an overview of possible catalytic reactions structures and mechanisms The following seventeen chapters focus on carefully selected topics each written by leading experts in the area Readers will find explanations of rapidly evolving research from the chemistry of isopenicillin N synthase to the oxidation mechanism of 5 methylcytosine in DNA by ten eleven translocase oxygenases

Calixarenes and Beyond Placido Neri, Jonathan L. Sessler, Mei-Xiang Wang, 2016-08-12 Contributions featuring the chemistry and applications of a family of macrocyclic compounds collectively known as calixarenes are presented in this edited volume The arsenal of structures based on calixarenes provides tools which are effective in numerous areas of supramolecular chemistry The Editors have compiled a timely volume which contains up to date high calibre contributions from a large number of international authors A broad perspective on the progress and future of calixarene chemistry is presented Aimed at students and researchers active in Supramolecular Chemistry

International Review of Cell and Molecular Biology, 2017-03-15 International Review of Cell and Molecular Biology reviews and details current advances in cell and molecular biology This most current release in this highly cited series focuses on such timely topics as novel treatments in immunotherapy in breast cancer chemokine receptor signaling and the hallmarks of cancer tumor targeting antibodies and a section on mitochondrion and whether they are a common organelle for cell death As always readers will find the articles in this series to be of great value with a high impact and average cited half life of nine years The IRCMB series has a worldwide readership maintaining a high standard by publishing invited articles on important and timely topics that are authored by prominent cell and molecular biologists This great resource ranks high amongst scientific journals dealing with cell biology Publishes only invited review articles on selected topics Authored by established and active cell and molecular biologists drawn from international sources Offers a wide range of perspectives on specific subjects

Professional Communication Louise Mullany, 2020-06-11 This edited book presents contemporary empirical research investigating the use of language in professional settings drawing on the contributions of a set of internationally

renowned authors The book takes a critical approach to understanding professional communication in a range of fields and global contexts Split into three parts covering Business and Organisations Healthcare and Politics and Institutions the contributors explore how and why academics engage in workplace research which takes the form of consultancy advocacy and activism In light of an ever changing ever demanding global landscape this volume offers new theoretical and methodological ways of conducting professional communication research with real world impact It will be of interest to linguistics and communication researchers and practitioners particularly those working in sociolinguistics discourse analysis business communication health communication political communication language and the law and organisational studies

Extracellular Vesicles and Their Importance in Human Health Ana Gil De Bona, Jose Antonio Reales-Calderon, 2020-03-04 Extracellular vesicle is a wide term that involves many different types of vesicles Almost all the cell types studied secrete vesicles to the extracellular environment related to cell cell communication Extracellular vesicles have been found in different biological fluids such as blood milk saliva tears urine and cerebrospinal fluid These vesicles transport different molecules including mRNA proteins and lipids some of them cell type specific that make them ideal biomarkers in both health and disease conditions However their contribution to different conditions is not well understood The aim of this book is to provide an overview of the extracellular vesicles in the human body how they are internalized and their participation in several diseases

Carbon Nanomaterials for Biological and Medical Applications Sekhar Chandra Ray, Nikhil Ranjan Jana, 2017-03-07 Nanomaterials for Biological and Medical Applications explores the different applications of carbon nanomaterials in drug and gene therapies and their use in tissue regeneration biosensor diagnosis enantiomer separation of chiral drugs extraction and analysis of drugs and pollutants and as antitoxents The book describes the synthesis processing of carbon nanomaterials carbon composite nanomaterials and their different biological and biomedical applications including the removal of biologically toxic materials optical biosensor applications bio imaging probe drug delivery cancer treatments and other biomedical applications Explains the major synthesis chemical process of carbon nanomaterials for biological applications Discusses how carbon nanomaterials can be practically used to create more efficient nanodevices in biosensing medical imaging and drug delivery Explores how the unique physical properties of carbon nanomaterials allows them to remove biologically toxic materials

Youmans and Winn Neurological Surgery E-Book H. Richard Winn, 2022-01-21 Widely regarded as the definitive reference in the field Youmans and Winn Neurological Surgery offers unparalleled multimedia coverage of the entirety of this complex specialty Fully updated to reflect recent advances in the basic and clinical neurosciences the 8th Edition covers everything you need to know about functional and restorative neurosurgery deep brain stimulation stem cell biology radiological and nuclear imaging and neuro oncology as well as minimally invasive surgeries in spine and peripheral nerve surgery and endoscopic and other approaches for cranial procedures and cerebrovascular diseases In four comprehensive volumes Dr H Richard Winn and his expert team of editors and authors

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[The Maudsley Prescribing Guidelines in Psychiatry](#) David M. Taylor, Thomas R. E. Barnes, Allan H. Young, 2021-05-06 The Maudsley Prescribing Guidelines in Psychiatry The new edition of the world renowned reference guide on the use of medications for patients presenting with mental health problems The Maudsley Prescribing Guidelines in Psychiatry is the essential evidence based handbook on the safe and effective prescribing of psychotropic agents Covering both common and complex prescribing situations encountered in day to day clinical practice this comprehensive resource provides expert guidance on drug choice minimum and maximum doses adverse effects switching medications prescribing for special patient groups and more Each clear and concise chapter includes an up to date reference list providing easy access to the evidence on which the guidance is based The fourteenth edition has been fully updated to incorporate the latest available research the most recent psychotropic drug introductions and all psychotropic drugs currently used in the UK USA Canada Australia New Zealand and Japan Several new sections cover topics such as deprescribing of major psychiatric drugs prescribing psychotropics at the end of life the treatment of agitated delirium the genetics of clozapine prescribing the use of weekly penfluridol and the treatment of psychotropic withdrawal Featuring contributions by an experienced team of psychiatrists and specialist pharmacists the new edition of The Maudsley Prescribing Guidelines in Psychiatry Provides succinct coverage of drug treatment of psychiatric conditions and formulating prescribing policy in mental health Covers a wide range of psychiatric conditions including schizophrenia bipolar disorder depression and anxiety borderline personality eating disorders and many others Provides advice on prescribing for children and adolescents older people pregnant women and other special patient

groups Offers new sections on genetic prescribing long acting injectable formulations ketamine administration and uses and dopamine super sensitivity Includes referenced information on off label prescribing potential interactions with other substances such as alcohol tobacco and caffeine and treating patients with comorbid physical conditions Whether in the doctor s office in the clinic or on the ward The Maudsley Prescribing Guidelines in Psychiatry Fourteenth Edition is a must have for psychiatrists pharmacists neuropharmacologists clinical psychologists nurses and other healthcare professionals working in mental health as well as trainees and students in medicine pharmacy and nursing

Antimicrobial Resistance in Zoonotic Bacteria Guyue Cheng,Liang-xing Fang,Xunde Li,Zuowei Wu,Jie Feng,2024-02-05

Due to the extensive antimicrobial use in humans and agriculture antimicrobial resistance AMR has emerged as a major threat to global health The intensive use of antimicrobials in animals selects AMR genes which then can be transferred to human pathogens via a variety of horizontal gene transfer mechanisms Although the prevalence and mechanisms of AMR have been studied in common foodborne pathogens and indicator bacteria such as Escherichia coli Staphylococcus aureus and the species of Enterococcus Salmonella and Campylobacter the situation with other rarely investigated veterinary and zoonotic bacteria such as Leptospira Brucella Borrelia Lawsonia and other genera is less clear In addition the majority of surveillance and control programs have been designed to target commensal and zoonotic bacteria in food production animals thus AMR bacteria in companion wild and other animals have received less attention

Environmental Nanotechnology Volume 4 Nandita Dasgupta,Shivendu Ranjan,Eric Lichtfouse,2020-01-01 This book presents comprehensive reviews on the latest developments of nanotechnologies to detect and remove pollutants in water air and food Polymer nanocomposites nanoparticles from microbes and application of nanotechnologies for desalination and agriculture are also addressed Pollution of water and air by contaminants and diseases is a major health issue leading globally to millions of deaths yearly according to the World Health Organization and such an issue requires advanced methods to clean environmental media

At the Crossroads Between Nutrition and Pharmacology Cristina Otero,2017-05-17 Functional foods foods with known bioactive properties have shown potential for preventive and therapeutic treatments However this potential must be safely determined before they enter the commercial market At the same time nutrition research is transforming into a data driven field with reference to the identification and development of functional food products due to the large number of variables affecting food biochemistry in the human body This volume presents reviews of recent advances in food chemistry food technology and nutraceutical research for diet therapy and cosmetics Chapters in this volume cover a broad spectrum of topics drug discovery and development in the modern nutraceutical industry recent developments in the extraction identification and quantification of bioactive peptides in foods concepts of bioavailability bioaccessibility bioactivity bioefficiency and bioconversion of bioactive foods synthetic routes for obtaining bioactive compounds the role of nutrigenomics to identify key cellular functions by specific genetic and epigenetic interactions with a nutrient anti cancer

properties of important bioactive components of medicinal plants the effect of a diet based on different bioactive foods on prevention and treatment of diabetes antioxidant effects on cardiovascular disease beneficial effects of bioactive foods on metabolic syndrome the potential of tauroursodeoxycholic acid on prevention and recovery of neurodegenerative diseases the effects of natural phytochemicals in prostate cancer the effects of methylxanthines caffeine and others and culinary methods on physiological and toxicological effects of the bioactive food constituents The volume is an ideal reference for pharmacy students nutritionists healthcare providers and nutraceutical R D specialists interested in functional foods Series Intro Frontiers in Bioactive Compounds brings edited reviews on the analysis and characterization of natural compounds of medicinal interest Each volume covers useful information on a variety of natural sources as well as analytical techniques This series is essential reading for analytical and medicinal chemists as well as professionals involved in natural and pharmaceutical product research and development *Antibody Fc Engineering: Towards Better Therapeutics* Tianlei

Ying,Rui Gong,2018-12-21 **Immunotherapy and The Regulatory Immune System in Blood Cancers: From Mechanisms to Clinical Applications** Ken H. Young,Andrés José María Ferreri,Alexandar Tzankov,Naval Daver,2019-08-16

Mesoporous Materials for Drug Delivery and Theranostics Valentina Cauda,Giancarlo Canavese,2020-12-17 Mesoporous materials are capturing great interest thanks to their exceptional surface area uniform and tunable pore size ease surface functionalization thus enabling broad series of intervention in the field of nanomedicine Since many years these aspects foster a deep investigation on mesoporous nanoparticles to design and fabricate biocompatible smart and stimuli responsive nanotools for controlled drug or gene delivery theranostics applications in particular for cancer therapy and tissue engineering This Book is thus dedicated to the most recent advances in the field collecting research papers and reviews It spans from the synthesis and characterization of the mesoporous material especially those made of silica silicon and bioactive glasses to their functionalization with smart gate keepers reporter molecules or targeting ligands up to their in vitro applications in the nanomedicine field Encyclopedia of Cell Biology ,2015-08-07 The Encyclopedia of Cell Biology Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher With authored contributions by experts in the field the Encyclopedia of Cell Biology provides a fully cross referenced one stop resource for students researchers and teaching faculty across the biological and medical sciences Fully annotated color images and videos for full comprehension of concepts with layered content for readers from different levels of experience Includes information on cytokinesis cell biology cell mechanics cytoskeleton dynamics stem cells prokaryotic cell biology RNA biology aging cell growth cell Injury and more In depth linking

to Academic Press Elsevier content and additional links to outside websites and resources for further reading A one stop resource for students researchers and teaching faculty across the biological and medical sciences Hierarchical Object Representations in the Visual Cortex and Computer Vision Antonio Rodríguez-Sánchez,Mazyar Fallah,Ales Leonardis,2016-06-08 Over the past 40 years neurobiology and computational neuroscience has proved that deeper understanding of visual processes in humans and non human primates can lead to important advancements in computational perception theories and systems One of the main difficulties that arises when designing automatic vision systems is developing a mechanism that can recognize or simply find an object when faced with all the possible variations that may occur in a natural scene with the ease of the primate visual system The area of the brain in primates that is dedicated at analyzing visual information is the visual cortex The visual cortex performs a wide variety of complex tasks by means of simple operations These seemingly simple operations are applied to several layers of neurons organized into a hierarchy the layers representing increasingly complex abstract intermediate processing stages In this Research Topic we propose to bring together current efforts in neurophysiology and computer vision in order 1 To understand how the visual cortex encodes an object from a starting point where neurons respond to lines bars or edges to the representation of an object at the top of the hierarchy that is invariant to illumination size location viewpoint rotation and robust to occlusions and clutter and 2 How the design of automatic vision systems benefit from that knowledge to get closer to human accuracy efficiency and robustness to variations **Electro-Mechanical Actuators for the More Electric Aircraft** Mirko Mazzoleni,Gianpietro Di Rito,Fabio Previdi,2021-01-19 This book presents recent results on fault diagnosis and condition monitoring of airborne electromechanical actuators illustrating both algorithmic and hardware design solutions to enhance the reliability of onboard more electric aircraft The book begins with an introduction to the current trends in the development of electrically powered actuation systems for aerospace applications Practical examples are proposed to help present approaches to reliability availability maintainability and safety analysis of airborne equipment The terminology and main strategies for fault diagnosis and condition monitoring are then reviewed The core of the book focuses on the presentation of relevant case studies of fault diagnosis and monitoring design for airborne electromechanical actuators using different techniques The last part of the book is devoted to a summary of lessons learned and practical suggestions for the design of fault diagnosis solutions of complex airborne systems The book is written with the idea of providing practical guidelines on the development of fault diagnosis and monitoring algorithms for airborne electromechanical actuators It will be of interest to practitioners in aerospace mechanical electronic reliability and systems engineering as well as researchers and postgraduates interested in dynamical systems automatic control and safety critical systems Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all

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