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9705 DESIGN AND TECHNOLOGY

9705/11

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The SAGE Handbook of Research in International Education Mary Hayden, Jack Levy, Jeff Thompson, 2015-10-13

The landscape of international education has changed significantly in the last ten years and our understanding of concepts such as international global and multicultural are being re evaluated Fully updated and revised and now including new contributions from research in South East Asia the Middle East China Japan Australasia and North America the new edition of this handbook analyses the origins interpretations and contributions of international education and explores key contemporary developments including internationalism in the context of teaching and learning leadership standards and quality in institutions and systems of education the promotion of internationalism in national systems This important collection of research is an essential resource for anyone involved in the practice and academic study of international education including researchers and teachers in universities governmental and private curriculum development agencies examination authorities administrators and teachers in schools

Interlaw Book on Renewables Energies Guy

Block, 2015-03-05 The Interlaw book on Renewable Energy is a comprehensive overview of renewable energy policies and developments in the major countries active in the field It addresses in a practical and legal perspective the main interrogations encountered by investors and policy makers on how to efficiently deploy renewable energy particularly in terms of support schemes grid connection costs priority and congestion rules or permitting

Smart Cities Policies and Financing John R. Vacca, 2022-01-19 Smart Cities Policies and Financing Approaches and Solutions is the definitive

professional reference for harnessing the full potential of policy making and financial planning in smart cities It covers the effective tools for capturing the dynamic relations between people policies financing and environments and where they are most often useful and effective for all relevant stakeholders The book examines the key role of science technology and innovation STI especially in information and communications technologies in the design development and management of smart cities policies and financing It identifies the problems and offers practical solutions in implementation of smart infrastructure policies and financing Smart Cities Policies and Financing is also about how the implementation of smart infrastructure projects related to the challenges of the lack of financing and the application of suitable policies underlines the key roles of science technology and innovation STI communities in addressing these challenges and provides key policies and financing that will help guide the design and development of smart cities Brings together experts from academia government and industry to offer state of the art solutions for improving the lives of billions of people in cities around the globe Creates awareness among governments of the various policy tools available such as output based contracting public private partnerships procurement policies long term contracting and targeted research funds in order to promote smart infrastructure implementation and encouraging the use of such tools to shape markets for smart infrastructure and correct market failures Ensures the inclusiveness of smart city projects by adequately addressing the special needs of marginalized

sections of society including the elderly persons with disabilities and inhabitants of informal settlements and informal sectors Ensures gender considerations in the design of smart cities and infrastructure through the use of data generated by smart systems to make cities safer and more responsive to the needs of women Demonstrate practical implementation through real life case studies Enhances reader comprehension using learning aids such as hands on exercises checklists chapter summaries review questions and an extensive appendix of additional resources

Recent Advances in $\gamma\delta$ T Cell Biology: New Ligands, New Functions, and New Translational Perspectives Dieter Kabelitz, Julie Dechanet-Merville, 2016-02-16

Gamma delta T cells are a small subset of T lymphocytes in the peripheral circulation but constitute a major T cell population at other anatomical localizations such as the epithelial tissues In contrast to conventional T cells the available number of germline genes coding for T cell receptor TCR variable elements of T cells is very small Moreover there is a preferential localization of T cells expressing given Vgamma and Vdelta genes in certain tissues In humans T cells expressing the Vg9Vd2 encoded TCR account for anywhere between 50 and 95% of peripheral blood T cells whereas cells expressing non Vd2 genes dominate in mucosal tissues In mice there is an ordered appearance of T cell waves during embryonic development resulting in preferential localization of T cells expressing distinct VgammaVdelta genes in the skin the reproductive organs or gut epithelia The major function of T cells resides in local immunosurveillance and immune defense against infection and malignancy This is supported by the identification of ligands that are selectively recognized by the TCR As an example human Vgamma9Vdelta2 T cells recognize phosphorylated metabolites phosphoantigens that are secreted by many pathogens but can also be overproduced by tumor cells providing a basis for a role of these T cells in both anti infective and anti tumor immunity Similarly the recognition of endothelial protein C receptor by human non Vdelta2 T cells has recently been identified to provide a link for the role for such T cells in immunity against epithelial tumor cells and cytomegalovirus infected endothelial cells In addition to classical functions such as cytokine production and cytotoxicity recent studies suggest that subsets of T cells can exert additional functions such as regulatory activity and quite surprisingly professional antigen presenting capacity It is currently not well known how this tremendous extent of functional plasticity is regulated and what is the extent of TCR ligand diversity Due to their non MHC restricted recognition of unusual stress associated ligands T cells have raised great interest as to their potential translational application in cell based immunotherapy Topics of this Research Focus include Molecular insights into the activation and differentiation requirements of T cells role of pyrophosphates and butyrophilin molecules for the activation of human T cells role of T cells in tumor immunity and in other infectious and non infectious diseases and many others We are most grateful to all colleagues who agreed to write a manuscript Thanks to their contributions this E book presents an up to date overview on many facets of the still exciting T cells Dieter Kabelitz Julie D chanet Merville

The Coevolution of IDO1 and AhR in the Emergence of Regulatory T Cells in Mammals Ursula Grohmann, Paolo Puccetti, 2016-01-28 Indoleamine 2 3 dioxygenase IDO1 is an ancestral enzyme that

initially confined to the regulation of tryptophan availability in local tissue microenvironments is now considered to play a wider role that extends to homeostasis and plasticity of the immune system Thus IDO biology has implications for many aspects of immunopathology including viral infections neoplasia autoimmunity and chronic inflammation Its immunoregulatory effects are mainly mediated by dendritic cells DCs and involve not only tryptophan deprivation but also production of kynurenines that act on IDO DCs thus rendering an otherwise stimulatory DC capable of regulatory effects as well as on T cells The aryl hydrocarbon receptor AhR is a ligand operated transcription factor originally recognized as the effector mediating the pathologic effects of dioxins and other pollutants However it is now well established that AhR activation by endogenous ligands can produce immunoregulatory effects The IDO1 mechanism appears to have been selected through phylogenesis primarily to prevent overreacting responses to TLR recognized pathogen associated molecular patterns and only later did it become involved in the response to T cell receptor recognized antigens As a result in mammals IDO1 has become pivotal in fetomaternal tolerance at a time when regulatory T cells emerged to meet the same need namely protecting the fetus IDO1 and regulatory T Treg cells may have then coevolved to broaden their function well beyond their initial task of protecting the fetus such that in acquired immunity IDO1 with its dual enzymic and signaling function has turned into an important component of the peripheral generation and effector function of regulatory T cells AhR in turn which has a role in regulatory T cell generation is presumed to have evolved from invertebrates where it served a ligand independent role in normal development processes Evolution of the receptor in vertebrates resulted in the ability to bind structurally different ligands including xenobiotics and microbiota derived catabolites Considering the inability of invertebrate AhR homologs to bind dioxins the adaptive role of the AhR to act as a regulator of xenobiotic metabolizing enzymes may have been a vertebrate innovation to later acquire an additional immune regulatory role by coevolutionary pressure in mammals by IDO1 and regulatory T cells Thus an entirely new paradigm in immunology and more specifically in immune tolerance is the coevolution of three systems namely the IDO1 mechanism AhR driven gene transcription and T cell regulatory activity that originating from the initial need of protecting the fetus in mammals have later turned into a pivotal mechanism of peripheral tolerance in autoimmunity transplantation and neoplasia **Aging and Mental Health** Lia

Fernandes, Constança Paúl, 2017-07-04 People are progressively ageing all over the world and it is estimated that the number of persons aged 60 or over will more than triple by 2100 This emerging population will experience an inevitable rise in dementia mental health problems and chronic diseases According to GBD 2010 neuropsychiatric disorders among older adults account for 6.6% of the total disability DALYs for this age group with 15% suffering from a mental disorder Multiple social psychological and biological factors are determinant of mental health as well as life stressors Among these the lack of independence limited mobility chronic diseases pain frailty or other mental and physical problems require long term care Beyond this the elderly are more prone to experience events such as bereavement a drop in socio economic status disability

which leads to isolation loss of independence loneliness and psychological distress Mental health problems and needs assessment by health care professionals and older people themselves are under recognised and the stigma surrounding mental illness makes people reluctant to seek help The early investigation and diagnosis of these situations are crucial as well as prior management with an important combination of pharmacological and psychosocial interventions in conjunction with caregivers and families support The present book aims to contribute to the development of knowledge in Aging and Mental Health taking different approaches from authors coming from diverse scientific fields with the final goal being the improvement of quality of life and healthy aging for this growing population

Frontiers of Sulfur Metabolism in Plant Growth, Development, and Stress Response Stanislav Kopriva, Dibyendu Talukdar, Hideki Takahashi, Rüdiger Hell, Agnieszka Sirko, Stanislaus F. D' Souza, Tulika Talukdar, 2016-09-07 Growing plants have a constitutive demand for sulfur to synthesize proteins sulfolipids and other essential sulfur containing molecules for growth and development The uptake and subsequent distribution of sulfate is regulated in response to demand and environmental cues The importance of sulfate for plant growth and vigor and hence crop yield and nutritional quality for human and animal diets has been clearly recognized The acquisition of sulfur by plants however has become an increasingly important concern for the agriculture due to the decreasing S emissions from industrial sources and the consequent limitation of inputs from atmospheric deposition Molecular characterization involving transcriptomics proteomics and metabolomics in *Arabidopsis thaliana* as well as in major crops revealed that sulfate uptake distribution and assimilation are finely regulated depending on sulfur status and demand and that these regulatory networks are integrated with cell cycle photosynthesis carbohydrate metabolism hormonal signaling uptake and assimilation of other nutrients etc to enable plant growth development and reproduction even under different biotic and abiotic stresses This knowledge can be used to underpin approaches to enhance plant growth and nutritional quality of major food crops around the world Although considerable progress has been made regarding the central role of sulfur metabolism in plant growth development and stress response several frontiers need to be explored to reveal the mechanisms of the cross talk between sulfur metabolism and these processes In this research topic the knowledge on plant sulfur metabolism is reviewed and updated Focus is put not only on molecular mechanisms of control of sulfur metabolism but also on its integration with other vital metabolic events The topic covers 4 major areas of sulfur research sulfate uptake assimilation and metabolism regulation and role in stress response We hope that the topic will promote interaction between researchers with different expertise and thus contribute to a more integrative approach to study sulfur metabolism in plants

The Major Discoveries of Cajal and His Disciples: Consolidated Milestones for the Neuroscience of the XXIst Century Fernando de Castro, Miguel A. Merchán, 2017-04-25 When Santiago Ramon y Cajal started to unravel the fine structure of the nervous system in the last decades of the XIXth century maybe only his unbeatable soul of brave Spaniard imagined that most of the descriptions were scientific truths that lasted to date Simple histological stainings curiosity to

ameliorate these monocular microscopes patience for drawing his observations and a rich imaginative open mind this is the recipe for Cajal success His descriptions of connectivity in the nervous system compiled in Cajal's opus magna published in 1904 *Textura del sistema nervioso del hombre y los vertebrados* and 1911 *Histologie du systeme nerveux* have been corroborated by modern techniques decade after decade Even more the main hypothesis that Cajal raised are universally recognised as biological laws today the neuron theory the law on the dynamic polarization of the neuron and the chemotropic hypothesis That is the nervous system is not a syncytial network but is formed by individual cells the transmission of the nerve impulses follow a main direction within a given neuron the axons are guided by chemical substances in a chemotropic way till form synapses with their targets Attracted by Cajal's strong personality and scientific success a number of medical students and doctors join him in the crusade to explore the nervous system And the seed planted by the universal savant was really successful Francisco Tello described interesting aspects of the regeneration of peripheral nerves which are very useful for neuroscientist currently working in this topic Nicol's Acharro significantly contributed to study neuroglia and future microglia Pío del Río Hortega identified two out of the four main nervous cell types the oligodendrocytes and microglia and proposed an almost still valid classification for the CNS tumours Fernando de Castro made was the first description of arterial chemoreceptors in the carotid body Rafael Lorente de N was a dominant figure of Neuroscience for decades after the IInd World War first describing the columnar organization of the cerebral cortex well before Mountcastle Hubbel and Wiesel Even less recognised co workers and disciples of Cajal his brother Pedro Ramón y Cajal Domingo Sánchez the neurologist Rodríguez Lafora protagonised discoveries that are consolidated scientific truths today Altogether it is difficult if not impossible to find a school in biology contributing in such a fundamental and varied way to the common acervo like the collectively known as Cajal School or Spanish Neurological School Although the particular way to work of the Maestro selecting a pleiade of brilliant collaborators with whom accomplish such a titanic feat giving them freedom for their studies has been recognised and confronted to antagonic systems followed by other relevant scientists and scientific schools the general recognition of such a significant major milestones for Neuroscience and their vigency in the well marched XXIst century is not this is the purpose of this Ebook to remind all these examples of how successful can be the scientific work when it is minutious constant and performed by brilliant imaginative and skilled scientists with a minimal conditions supporting their efforts

Chrysomeloidea II (Orsodacnidae, Megalopodidae, Chrysomelidae) - Part 2, 2024-07-01 Volume 6

2 of the Catalogue of Palaearctic Coleoptera focuses on the second part of the beetle superfamily Chrysomeloidea reported from the Palaearctic biogeographic region For the genus and species groups taxa all relevant names are given and all nomenclatural data are cross checked and the distribution of species and subspecies is given per country or smaller region A group of 14 experts have worked to collect data based on a critical review of published sources including a significant amount of new information This volume is also a tool for specialists as well as amateurs which warrants unambiguous

communication **Immunoglobulin Therapy in the 21st Century: The Dark Side of the Moon** Isabella Quinti, Marcella Visentini, Albert Farrugia, 2015-11-20 In the early decades since the introduction in the early 80s of immunoglobulin therapy many studies tried to identify which clinical indications might benefit from the therapy which treatment schedules are effective and safe It is universally accepted that immunoglobulin therapy is a life saving treatment in patients with PID The rise of new indications for further different clinical conditions resulted in a steady increase in demand for immunoglobulins Currently the consumption of immunoglobulin for PID represents a small fraction of the market In the recent past we have been observing 1 An increase in the demand for plasma and in the consequent need to increase the number of donors 2 Changes in methods to improve IgG recovery and to increase productivity as a response to growing clinical demand 3 Introduction of immunoglobulin treatments with higher concentration 4 Changes in the timing of administration with an increase in the rate of infusion 5 Introduction of immunoglobulin treatment administered subcutaneously mainly confined initially to patients with PID and later extended to other clinical indications which often require higher volumes of infusion Doctors following patients with PID were initially alarmed only to a possible risk of shortage More relevant and less discussed appear the possible consequences of 1 the risk of an improper transfer of information on treatments from a clinical indication to another In particular the idea of a mere replacement function in patients with PID might possibly be borrowed from the model of other clinical conditions requiring a replacement such as haemophilia In PID immunoglobulin treatment instead is obviously replacing a missing feature However other immune alterations are responsible for the large number of PID associated diseases including inflammatory manifestations and tumors common causes of morbidity and mortality The immunomodulatory effects of immunoglobulin administered at replacement dosages on multiple cells and immune system functions are still largely to be checked in in vitro studies and in vivo 2 the changes in the immunoglobulin production and schedules of administration These should have been assessed in studies of drug surveillance necessary in order to evaluate on large numbers of what it is initially reported on patients enrolled in the pivotal clinical trials usually in the absence of most of the main disease associated clinical conditions affecting pharmacokinetics efficacy and tolerability Severe side effects are now more frequently reported This requires surveillance studies in order to verify the tolerability Nowadays personalized health research presents methodologic challenges since emphasis is placed on the individual response rather than on the population Even within a universally accepted indication such as in PID the identification of prognostic markers should guide the therapeutic intervention 3 the risk of a decrease in the surveillance and monitoring of PID associated clinical conditions In fact self administration of immunoglobulins administered subcutaneously increased the independence of a number of patients On the other hand it led to the reduction in the number of contacts between specialized centers and patients who often require a close monitoring of disease associated conditions A wide debate between experts is necessary to afford the new challenge on immunoglobulin usage

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