

Metabolomics in Neurodegenerative Disease-Brian Green 2020-04-21 The range of human neurodegenerative diseases continues to pose significant unmet medical needs for societies around the world. The progressive and terminal nature of these conditions places a considerable personal burden on the individual affected but also on public health systems and health services. Tens of millions of people are indiscriminately affected by various dementias, which are rising at an alarming rate. There are no cures for many conditions, and it is clear that treatments applied as early as possible could greatly improve outcomes for patients. Therefore, new disease classification and diagnostic tools should be a key priority. Metabolomics represents a relatively new field of analytical science, which can be extremely useful in the early diagnosis of disease. The relatively unique feature of metabolites is that they sit at the intersection between the genetic background of an organism and its environment. Because many neurodegenerative diseases are not genetically inherited (instead having a range of known genetic risk factors and also a large number of unknown environmental triggers) the field of metabolomics offers great promise for the discovery of new, biologically, and clinically relevant biomarkers for neurodegenerative disorders. It is already bringing forward new knowledge in terms of the mechanisms of neurodegenerative disease.

Hydrothermal Processing in Biorefineries-Héctor A. Ruiz 2017-06-11 The biorefinery, integration of processes and technologies for biomass conversion, demands efficient utilization of all components. Hydrothermal processing is a potential clean technology to convert raw materials such as lignocellulosic and aquatic biomass into bioenergy and high added-value compounds. This book aims to show fundamental concepts and key technological developments that enabled industrial application of hydrothermal processing. The scope of this book is primarily for scientists working in the biorefinery field as well as engineers from industry and potential investors in biofuels. Therefore, the information in this book will provide an overview of this technology applied to lignocellulosic materials and aquatic biomass, and especially new knowledge. Critically, this book brings together experts in the application of hydrothermal processes on lignocellulosic and aquatic biomass.

The Chemistry and Biology of Volatiles-Andreas Herrmann 2011-06-15 "Coming to a conclusion, this wonderful, informative and very interesting book presents an excellent overview of small volatile organic compounds and their role in our life and environment. Really fascinating is the entirety of scientific disciplines which were addressed by this book." -Flavour and Fragrance Journal, 2011 "... this book deserves to be a well-used reference in the library of any laboratory specialising in VOC". -Chemistry World, 2011 Volatile compounds are molecules with a relatively low molecular weight allowing for an efficient evaporation into the air. They are found in many areas of our everyday-life: they are responsible for the communication between species such as plants, insects or mammals; they serve as flavours or fragrances in many food products or perfumed consumer articles; and they play an important role in atmospheric chemistry. This book takes an interdisciplinary approach to volatile molecules. Review-style introductions to the main topics in volatile chemistry and biology are provided by international experts, building into a broad overview of this fascinating field. Topics covered include: The structural variety of volatile compounds Biogenesis of volatiles Synthesis of natural and non-natural volatiles Analysis of volatiles Volatile compounds as semiochemicals in plant-plant or plant-insect interactions Volatiles in pest control Pheromones and the influence of volatiles on mammals Olfaction and human perception Volatiles as fragrances The generation of flavours and food aroma compounds Stabilisation and controlled release of volatiles The impact of volatiles on the environment and the atmosphere

Prions-Victoria A. Lawson 2017-09-02 This volume details protocols on prion disease from multiple disciplines and highlights the contribution each discipline has made to the understanding of prion disease. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Prions: Methods and Protocols aims to ensure successful results in the further study of this vital field.

TECHNEAU-Theo van den Hoven 2009 "TECHNEAU, an integrated project funded by the European Commission, challenges the ability of traditional system and technology solutions for drinking water supply ..."-P. [3].

The Girlfriend Diet-Deborah Yost 2014-12-30

Saponins Used in Food and Agriculture-George R. Waller 2012-12-06 "A wealth of information...these two volumes will be immensely valuable to anyone having to deal with this difficult group of compounds." ---Biochemical Systematics and Ecology, from a review of Saponins Used in Traditional and Modern Medicine and Saponins Used in Food and Agriculture "A valuable contribution to the literature." ---The Quarterly Review of Biology, December 1997

Creativity-Philippe Petit 2015-08-18 Since well before his epic 1974 walk between the Twin Towers of the World Trade Center, Philippe Petit had become an artist who answered first and foremost to the demands of his craft - not only on the high wire, but also as a magician, street juggler, visual artist, builder and writer. A born rebel, he is self taught, cultivating the attitudes, resources and techniques to tackle even seemingly impossible feats. His outlaw sensibility spawned a unique approach to the creative process, an approach he shares with the reader, revealing unconventional ways of creating art.

Energetic Compounds-Mohammad Hossein Keshavarz 2020-05-05 This book discusses methods for the assessment of energetic compounds through heat of detonation, detonation pressure, velocity and temperature, Gurney energy and power. The authors focus on the detonation pressure and detonation velocity of non-ideal aluminized energetic compounds. This 2nd Edition includes an updated and improved presentation of simple, reliable methods for the design, synthesis and development of novel energetic compounds.

Schwann Cells-Paula V. Monje 2018-03-28 This volume presents an assortment of traditional and emerging experimental procedures relevant to Schwann cell research. The chapters are divided into four parts. Part I contains protocols for in vitro culture, purification, and characterization of primary Schwann cells from diverse species and stages of nerve development. It also contains protocols to create cancer cell lines and engineered Schwann cells from unconventional sources via chemical conversion, induced differentiation or genetic intervention. Parts II and III outline a wide range of methodologies used to study Schwann cells within in vitro and in vivo systems relevant to the analysis of peripheral nerve development, cancer, axon degeneration/regeneration, and myelination. Last but not least, part IV outlines protocols for Schwann cell production, collection, labeling and transplantation in the injured peripheral nerve and spinal cord of experimental animals and human subjects. Authoritative and practical, Schwann Cells: Methods and Protocols aims to aid both experienced and new investigators to make progress in their research endeavors involving Schwann cells.

Bessie Needs Hearing Aids-Jenna Harmke 2020-05-13 Did you child just get hearing aids?Is your child feeling self-conscious about their hearing loss?Bessie Needs Hearing Aids" is a children's book that will help children with hearing loss understand the process, and that they are not alone. Written and illustrated by a teenage girl who went through this process, so it will resonate with children just learning of hearing issues, or coping with wearing hearing aids. The book received numerous accolades so it was decided to make it available to all, in order to possibly help other children with hearing loss.When a child goes through the process of getting hearing aids, it is scary for them and difficult for a parent to explain. This is a story of Bessie, the bunny, who was so excited to start school only to have the kids get frustrated that she was not hearing them properly. Bessie visits the audiologist and learns about hearing aids and the happy results of getting hear aids.

Futuristic Trends in Network and Communication Technologies-Pradeep Kumar Singh 2018-12-24 This book constitutes the refereed proceedings of the First International Conference on Futuristic Trends in Network and Communication Technologies, FTNCT 2018, held in Solan, India, in February 2018. The 37 revised full papers presented were carefully reviewed and selected from 239 submissions. The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas. The selected papers are organized in topical sections on communication technologies, Internet of Things (IoT), network technologies, and wireless networks.

Phyto and Rhizo Remediation-Naveen Kumar Arora 2019-11-15 The increasing human population and the associated activities have negatively influenced the ecosystems and life on earth. The continuous addition of agrochemicals, heavy metals and industrial wastes/ effluents in the ecosystems have caused great harm, including loss of productivity, biodiversity, climate change and diseases in plants, animals and humans, resulting in increased marginal lands and endangered sustainability of life on earth. Hence, there is an urgent need to reverse the impact of dangerous pollutants through a holistic, sustainable and biotic approach. Bioremediation involves the utilization of biological systems, mainly plants (phytoremediation) or microorganisms or both in combination (rhizoremediation) for the removal or degradation of pollutants and revive the habitats in an eco-friendly manner. Recently, there have been many success stories related to bioremediation involving plants or plant-microbe interactions. These success stories are related to the removal of heavy metals, pesticides, polyaromatic hydrocarbons, explosives, radionuclides or reduction of biological oxygen demand, total dissolved solids, total suspended solids, oil spills in water bodies. Rhizoremediation has also been successfully used for reclamation of saline or marginal soils. With the range of pollutants and the total area (on earth) covered by these toxic chemicals, it is important that these eco-friendly technologies be utilized in a better way. The book throws light on the recent happenings, research and success stories related to bioremediation of polluted habitats through phytoremediation or rhizoremediation. The book also highlights some of the significantly important plant and microbial species involved in remediation, the physiology, biochemistry and the mechanisms of remediation by various plants and microbes, and suggestions for future improvement of bioremediation technology.

Passport Series: North America-Deborah Kopka 2011-09-01 Issue your students a passport to travel the globe with this incredible new series! Eight jam-packed

Recent Progress in Slow Sand and Alternative Biofiltration Processes-Rolf Gimbel 2006-03-31 Slow sand filtration is typically cited as being the first "engineered" process in drinking-water treatment. Proven modifications to the conventional slow sand filtration process, the awareness of induced biological activity in riverbank filtration systems, and the growth of oxidant-induced biological removals in more rapid-rate filters (e.g. biological activated carbon) demonstrate the renaissance of biofiltration as a treatment process that remains viable for both small, rural communities and major cities. Biofiltration is expected to become even more common in the future as efforts intensify to decrease the presence of disease-causing microorganisms and disinfection by-products in drinking water, to minimize microbial regrowth potential in distribution systems, and where operator skill levels are emphasized. Recent Progress in Slow Sand and Alternative Biofiltration Processes provides a state-of-the-art assessment on a variety of biofiltration systems from studies conducted around the world. The authors collectively represent a perspective from 23 countries and include academics, biofiltration system users, designers, and manufacturers. It provides an up-to-date perspective on the physical, chemical, biological, and operational factors affecting the performance of slow sand filtration (SSF), riverbank filtration (RBF), soil-aquifer treatment (SAT), and biological activated carbon (BAC) processes. The main themes are: comparable overviews of biofiltration systems; slow sand filtration process behavior, treatment performance and process developments; and alternative biofiltration process behaviors, treatment performances, and process developments.

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