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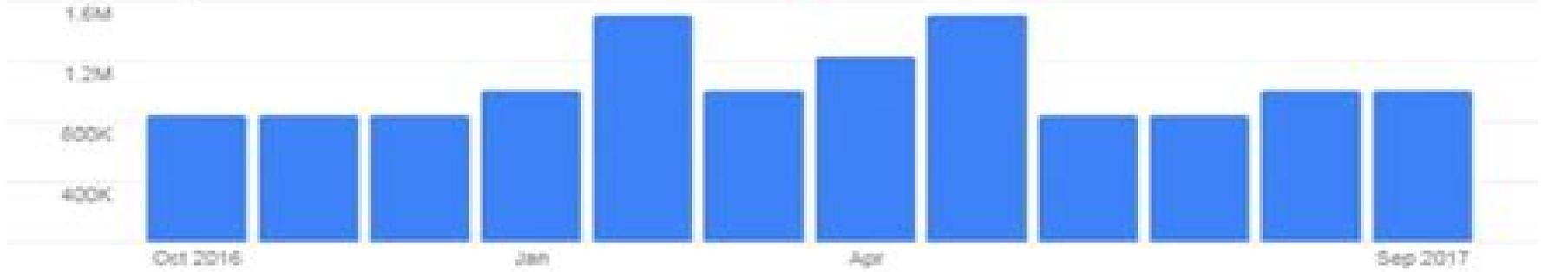
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Trending Keyword Research 2025

Ensheng Dong



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Challenges and Opportunities in Tumor Metabolomics Zhengyan Chang, Chunmiao Cai, Hongqi Teng, Lei Yin, Cheng Kong, 2026-02-26 Tumor metabolomics is an emerging field focused on understanding the metabolic alterations that occur in tumor cells and their surrounding microenvironment. These changes are essential to support the rapid proliferation and survival of cancer cells. Metabolic reprogramming in tumor cells reshapes signaling pathways and influences transcriptional regulation. Furthermore, metabolites within the tumor microenvironment can significantly affect immune cell function, contributing to immune evasion and tumor progression. Integrating transcriptomic, proteomic, and metabolomic data has enabled researchers to map associations between transcriptional regulators and metabolites, offering insights into the complexity of tumor metabolism. Tumor metabolomics holds promise for advancing cancer research with applications in diagnosis, monitoring, and therapy. Innovative approaches, including the integration of Traditional Chinese Medicine (TCM) and advanced drug delivery systems, are being explored to modulate tumor immunity and metabolism, offering new therapeutic avenues for tumor intervention. Understanding these metabolic processes is key to improving treatment strategies and outcomes for cancer patients. This Research Topic focuses on the investigation of metabolic alterations associated with tumor metabolism and the development of targeted therapies based on these insights. We invite contributions that explore the following themes: Molecular Mechanisms, Metabolomics, and Systems Biology, Therapeutic Approaches. We welcome original research articles, reviews, and perspectives that advance our understanding of tumor metabolism and offer innovative solutions. Manuscripts should provide clear scientific evidence and adhere to rigorous standards of methodology and reporting. This Research Topic welcomes Original Research articles and Reviews focusing on the following subjects: oncological metabolism, novel metabolic genomic discoveries, direct mechanistic investigations, metabolic reprogramming in disease, metabolic interventions in the management, metabolic insights into the pathogenesis and treatment, nutrigenomics. **Innovative Nutritional Technologies for Sustainable Ruminant Farming** Yafeng Huang, Ming Cai, Lan Mu, 2026-02-26 As global populations and living standards continue to rise, so does the demand for ruminant products. Ruminants are crucial in animal production, contributing significantly to agricultural sustainability, food quality, and public health. To meet this increased demand while maintaining a balance between production efficiency, product quality, animal welfare, and environmental sustainability, innovative strategies in nutrition and feeding are imperative. This necessitates robust scientific research and the effective dissemination of new knowledge. There is an increasing focus on enhancing the nutritional quality of ruminant products for human consumption, improving animal health and welfare through advanced feed and additives, and developing adaptive nutrition solutions to address challenges posed by climate change. To address these needs, it is vital to implement cutting-edge technologies and devise region-specific strategies tailored to the unique ecological challenges of varied climates. This Research Topic aims to delve into precision farming, digital tools, and advanced nutritional technologies paving the way

for sustainable and efficient ruminant farming across different geographic regions The goal of this Research Topic is to present high quality original scientific articles that explore several key areas The effects of innovative feeding strategies on the productivity health and sustainability of ruminants The development of new feeding methods tailored to the impacts of climate change The usage of novel prebiotics probiotics natural extracts and by products in ruminant nutrition We will especially focus on Implementing precision nutrition technologies to enhance feed efficiency Exploring region specific feeding strategies that mitigate local environmental impacts Integrating advanced digital tools and data analytics into ruminant nutrition management Evaluating the implications of smart technologies on ruminant productivity and welfare By emphasizing the integration of technological innovations with specific regional adaptations this Research Topic strives to advance ruminant nutrition practices that ensure sustainability and high productivity on a global scale

Leveraging LLMs for Business Innovation: Practical Solutions and Future Trends Mohamed A. Ismail, Sherif,2026-02-05 In today's evolving digital landscape large language models LLMs transform how businesses innovate compete and deliver value Organizations can harness the power of these advanced AI tools to streamline operations and unlock new revenue streams From automating content creation and optimizing workflows to enabling smarter decision making deploying LLMs across various industries is essential for innovation LLMs help businesses prepare for and identify emerging trends helping leaders anticipate the next wave of AI driven disruption and opportunity Leveraging LLMs for Business Innovation Practical Solutions and Future Trends explores how large language models LLMs revolutionize business applications from automation and decision making to customer engagement and predictive analytics It bridges the gap between AI research and real world business applications Covering topics such as fraud detection artificial intelligence and risk management this book is an excellent resource for academicians researchers engineers business owners data scientists and policymakers

Generative AI-Enhanced Science Education From Early Childhood to Higher Education Kalogiannakis, Michail,Sotiropoulos, Dimitrios,2026-01-13 Generative artificial intelligence AI is reshaping science education by transforming how learners engage with complex concepts from early childhood through higher education By creating personalized instruction and adaptive feedback generative AI tools can make scientific learning more engaging and responsive to individual needs From sparking curiosity in young learners through creative exploration to supporting advanced research and problem solving at the university level generative AI science education has the potential to bridge learning gaps As educational systems evolve alongside technological innovation integrating generative AI thoughtfully offers new opportunities to strengthen scientific literacy Generative AI Enhanced Science Education From Early Childhood to Higher Education explores the use of generative AI in science education and its new methods It examines the potential of generative AI to transform science teaching and learning by proposing innovative pedagogical models Covering topics such as science education generative AI and educational technologies this book is an excellent resource for educational institutions educators academicians researchers

technology developers and graduate students **Neuroinflammation, Neurodegeneration, and Auditory-Vestibular**

Disorders Arianna Di Stadio, Diego Kaski, Elliot Mark Frohman, Hans-Peter Hartung, Massimo Ralli, Sho Kanzaki, 2026-02-02

The connection between auditory or vestibular disorders and neuroinflammatory or neurodegenerative diseases has gained increased attention due to their impact on individuals' quality of life. This association may derive from shared predisposing factors and pathophysiological mechanisms, causal relationships, and anatomical connections. Neuroinflammatory and neurodegenerative diseases such as migraine, autoimmune neuritis, multiple sclerosis, Parkinson's disease, and Alzheimer's disease often manifest with varying degrees of audio-vestibular dysfunction, ranging from mild hearing impairment to severe disruptions in processing sound stimuli and unbalance. Moreover, auditory or vestibular disorders can result in cognitive impairment and dementia, pointing to common predisposing factors and causal relationships. Finally, the anatomical connection between the inner ear and the cerebrospinal fluid is a valid path for the bidirectional spread or sharing of neuroinfective, neuroinflammatory, and pathogenetic mechanisms. Investigating the underlying mechanisms of auditory-vestibular impairments in the context of neuroinflammatory and neurodegenerative diseases is essential for developing targeted interventions and personalized treatment strategies that address the holistic needs of affected individuals. By unraveling the complexities of the link between audio-vestibular dysfunction and these conditions, we can pave the way for improved diagnostic accuracy, early intervention protocols, and enhanced therapeutic outcomes for patients facing these challenging comorbidities. This Research Topic aims to delve into the intricate interplay between neuroinflammation, neurodegeneration, and auditory-vestibular dysfunction occurring at any level, from the peripheral sensory system to auditory and vestibular cortex areas. By exploring the pathophysiological pathways, diagnostic challenges, and therapeutic strategies related to audio-vestibular disorders in neuroinflammatory and neurodegenerative diseases, we aim to provide a comprehensive overview, including clinical and animal studies that can guide future research directions and clinical practices. To gather further insights into the complex relationship between auditory-vestibular dysfunction and neuroinflammatory and neurodegenerative diseases, we welcome the submission of any type of manuscript supported by the journal, including Brief Research Reports, Perspective, Mini Review, Original Research, Systematic Review, etc., pertaining but not limited to the following themes: Mechanisms of auditory or vestibular dysfunction in neuroinflammatory and neurodegenerative diseases, including infectious and autoimmune diseases; Common prognostic and pathophysiological factors among audio-vestibular disorders, neuroinflammatory and neurodegenerative diseases; Investigation of the involvement of peripheral and central auditory or vestibular system structures in disorders related to neuroinflammatory and neurodegenerative diseases; Advances in the detection and use of multimodal biomarkers, such as neuroimaging, audio-vestibular testing, mRNA, or other biochemical markers and electrophysiological markers for early detection and monitoring of auditory and vestibular disorders, including onset, relapse, or progression of neuroinflammatory and neurodegenerative diseases; Therapeutic interventions targeting

auditory vestibular impairments in neurocognitive conditions Impact of audio vestibular deficits on patients overall cognitive and emotional well being *Engineering Air Quality Solutions* Sneha Gautam,Ajay Taneja,2026-05-11 A rigorous blueprint for designing monitoring and governing cleaner urban atmospheres with engineering first precision *Engineering Air Quality Solutions Measurement Control and Infrastructure Innovations* by Sneha Gautam and Ajay Taneja offers up to date solutions for many of the hardest problems at the nexus of pollution science civil systems and policy Drs Gautam and Taneja draw on their extensive expertise in environmental science to offer an authoritative playbook that spans sensors models materials and regulatory practice The result is a technically exacting guide to measuring predicting and reducing pollution across buildings industry and cities Across nine tightly edited chapters the book progresses from problem framing to implementation the health and infrastructure stakes of polluted air the climate air nexus and design responses remote and ground based monitoring architectures high performance ventilation and IAQ engineering pollution resistant materials CFD and data driven dispersion modeling AI IoT for smart city control loops industrial emissions engineering and compliance with global regulatory standards Each chapter combines methods algorithms and case evidence culminating in a practitioner ready set of tools you can deploy today in planning design and operations The book also Quantifies climate impacts on urban pollutant behavior including heat islands weather variability and risk from extreme events and translates them into infrastructure design criteria Compares satellite UAV and ground networks specifies deployment strategies and applies AI ML to automate QA QC and interpretation at scale Delivers IAQ engineering guidance like filtration and air exchange design to smart building telemetry grounded in material emissions and real time control Details materials and technologies for passive and active mitigation including photocatalytic coatings nanomaterials and green infrastructure performance Aligns engineering practice with global policy addressing design for compliance evidence based standards and governance frameworks that actually reduce exposures *Engineering Air Quality Solutions* is perfect for civil environmental and transportation engineers air quality specialists urban planners infrastructure designers and policy professionals who need technically defensible strategies that link sensing modeling and mitigation to measurable health and compliance outcomes It will also benefit graduate researchers and advanced students seeking a definitive survey of relevant methods and implementations [Asian Sources Electronic Components](#) , [Documentation Abstracts](#) ,1999 [Teaching and Learning of English in the 21st Century](#) Muhammad Kamarul Kabilan,2021 [Register of educational research in the United Kingdom](#) ,1976 [Essentials of Economics](#) Bradley R. Schiller,2005 *Essentials of Economics* is the market leader for the one semester survey course In just about 400 pages it provides a solid introduction to the core concepts of economics with an emphasis on real world examples and current events *Essentials* has earned its popular success because unlike other books on the market it is free of the abstract and complex theory that require more time than this course allows Instead the text is clean and concise with many examples of significance to students today including *Headlines and Policy Perspectives* that use current events to help illustrate the

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