



Stem Kits 2025

S Marginson



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HCI International 2025 - Late Breaking Papers Margherita Antona, Constantine Stephanidis, 2026-01-01 The 16 volume set LNCS 16331 16346 constitutes late breaking papers from the 27th International Conference on Human Computer Interaction HCI International 2025 held in Gothenburg Sweden during June 22 27 2025 A total of 7972 individuals from academia research institutes industry and government agencies from 92 countries submitted contributions 1430 papers and 355 posters as short research papers were included in the volumes of the proceedings published just before the start of the conference Additionally 439 papers and 104 posters were included in the volumes of the proceedings published after the conference as Late Breaking Work The papers were organized in topical sections as follows Part I Theoretical and Conceptual Advances in HCI and User Interface and Interaction Design Design for Inclusivity and Social Impact Part II Robotics Embodied Agents and Human Robot Interaction Smart Environments and Manufacturing Systems Human AI Interaction and Generative AI in Design and Ethics Privacy and Sustainability in Digital Systems Part III Human Experience in Virtual Environments Human Factors in Intelligent and Autonomous Systems and Computational Methods for Human Behavior Analysis Part IV Human Performance and Safety in Aviation Human Automation Teaming Eye Tracking Cognition and Situation Awareness and Innovations in Adaptive and Responsive Environments Part V Accessibility and Inclusive Interaction Design Accessibility and Innovations in Intelligent Environments and Human Centered Technologies for Autism and Neurodiverse Populations Part VI Designing for Positive Change Well Being Inclusion and Social Impact Cross Cultural and Creative Design Futures Design and Engineering of Mobility Experiences and Human Factors Safety and Driver Assistance Part VII Social Media Society and Digital Communities LLMs and Intelligent Agents in Social Computing and Security Understanding User Behavior in Social Computing and Security Privacy and Trust in Digital Environments Part VIII Frameworks and Computational Methods in XR Human Factors and User Experience in XR XR Culture and Immersive Heritage Experiences Extended Reality in Healthcare and Medical Training and Serious Games and Interactive Narratives Part IX Ergonomics and Digital Human Modeling Digital Human Modeling in Fashion and Textiles Artificial Intelligence and Smart Services in Digital Human Modeling and Health Monitoring Decision Making and Care Optimization Part X Generational Differences and Technology Acceptance in Older Adults Healthy Lifestyle Physical Activity and Active Aging Cognitive Health Well Being and Preventive Care Intelligent Systems Safety and Aging in Place and Artificial Intelligence in Healthcare and Well Being Part XI User Experience and Interaction for Positive Social Impact User Experience Methods Tools and Metrics User Experience in Education and Learning and User Experience in Digital Heritage and Art Part XII User Experience in Product and Service Design User Experience AI and Emerging Applications Digital Innovation and Interactive Design for Cultural Heritage and Technology Driven Cultural Shifts AI Metaverse and Digital Society Part XIII Human Centered Perspectives on New Technologies Adoption and Impact AI Empowered Ageing Education and Healthcare Advances

in Commerce Marketing and Consumer Behavior and Digital Transformation of Business and Governance Part XIV Immersive Technologies for Learning Inclusive and Collaborative Learning Design Adaptive Instructional Systems AI Data and Intelligent Support in Education Part XV Human Centered Artificial Intelligence Frameworks and Lessons Learned Frameworks and Approaches for Trustworthy and Explainable AI Large Language Models Capabilities Biases and Applications Part XVI Generative AI in Creativity and Design Human AI Interaction and Collaboration and Mobile Technologies for Health Education and Digital Engagement

Mesenchymal Stem Cells and Derived Extracellular Vesicles as Next-Generation Biological Drugs for Tissue Regeneration Silvia Barbon, Andrea Porzionato, Antara Banerjee, 2026-01-30 In the field of Regenerative Medicine the preclinical and clinical research on multipotent adult stem cells and in particular mesenchymal stem cells MSCs has prompted the identification of new therapeutic approaches for the treatment of structural tissue organ dysfunctions and congenital or acquired diseases Over the last decades compelling evidence has demonstrated that the powerful therapeutic effects of MSCs are due to paracrine like secretion of cytokines growth factors and chemokines and extracellular vesicles EVs EVs are the paracrine effectors of MSCs that carry a set of molecules capable of influencing the metabolism and even the phenotype of target cells tissues The application of MSCs as biological drugs in cell therapy is based on regulating the inflammatory response and participating in tissue repair and regeneration The therapeutic effect of MSCs is largely ascribed to their immunomodulatory function regulated by the inflammatory environment Among the most important regenerative properties and immune regulation capabilities of MSCs is the secretion of EVs that retain the therapeutic action of the parent cells The use of EVs may help to overcome the safety concerns associated with live cell therapy and become the focus of future clinical approaches in Regenerative Medicine Several researchers have explored the role of MSCs and MSC EVs in various tissue damaging diseases However their key role in the development of immune regulation and stimulation of tissue regeneration still deserves to be clarified prior to their clinical application This Research Topic invites different kinds of contributions e.g. original research articles short communications review articles clinical studies that focus on the preclinical and translational investigation of MSCs and MSC EVs about different therapeutic aspects related to organ tissue regeneration Topics include but are not restricted to the following MSC responsiveness to humoral and mechanical stimuli to promote functional tissue regeneration Interactions between MSCs and natural synthetic biomaterials for the development of advanced tissue substitutes Standardization of MSC EV isolation and enrichment techniques and characterization of their biological structure transcriptome and secretome In vitro and in vivo investigation of the paracrine activity of MSCs and MSC EVs including their immunomodulatory function MSC and MSC EV based therapies in animal models of organ failure and disease

Rural STEM Education Research: Bridging between Uniqueness and Universality Guan Saw, Angela Starrett, Audrey Meador, Hobart Harmon, 2026-01-23 The opposition between uniqueness and universality in rural science technology engineering mathematics and medicine

STEMM education research is an enduring feature of the field. Theories and methods developed to be universally applicable are constantly adopted or reimaged in studying and understanding certain unique STEMM education phenomena or issues within and across rural contexts partly due to the vastness and variety that exists in what is labeled as rural and or STEMM education. Research ideas and findings focused on a unique rural population or setting often can have universal implications for other rural and non rural populations or settings though not explicitly articulated in many publications. Striving to be both unique and universal is a fundamental challenge yet has the potential to advance knowledge and practice in the field of rural STEMM education. The overall goal of this Research Topic is to introduce and explore the ideas of rural focused and rural reimaged approaches in potentially bridging the gaps between uniqueness and universality in STEMM education research. Rural focused theories and constructs e.g. place based education, rural identity are centered around populations and issues in rural settings whereas rural reimaged theories and constructs e.g. urban rural spatial inequality, social capital, expectancy, value beliefs are traditional theories and constructs that are reconceptualized to include rural perspectives in the studies. This Research Topic seeks articles that examine both the uniqueness and universality of rural STEMM education and educational research utilizing rural focused and or rural reimaged lens or approaches. We particularly welcome articles that address unique assets, challenges, needs, opportunities and or lessons learned of rural STEMM education while being situated in a broader research discipline as well as articles that explore the commonalities and connections across study cases, policies, programs, practices or contexts of rural STEMM education. This Research Topic invites theoretical, methodological and empirical contributions addressing but not limiting to the following key topics: Rural focused topics: Defining rurality in STEMM education, Defining STEMM in rural areas, Place based STEMM teaching learning etc. Rural STEMM identity, belonging etc. STEMM education in rural serving postsecondary institutions, STEMM education for local workforce development. Rural reimaged topics: Urban rural spatial inequality in rural STEMM education, Community cultural wealth in rural STEMM education, STEMM funds of knowledge of rural learners, Underrepresentation of rural students in STEMM education, Intersectionality in rural STEMM education, Critical policy analysis in rural STEMM education, Communities of practice in rural STEMM education, Research practice partnerships for rural STEMM education. Articles need to define rurality for interpretation by international readers and describe the uniqueness and universality of the research topics, theories, methods, findings and or implications in the context of rural STEMM education.

Early Childhood Deaf Education: Teacher Preparation and Instructional Approaches Graham, Patrick, Neild, Nena Raschelle, 2025-09-25. Early childhood is a critical period for language acquisition, cognitive development and social emotional growth making high quality education essential for those who are deaf or hard of hearing. Effective early childhood deaf education requires specialized teacher preparation and carefully designed instructional approaches that address the linguistic and communication needs of young deaf learners. Educators must be trained in general early childhood pedagogy and deaf education strategies including sign

language proficiency auditory verbal techniques and culturally responsive teaching With ongoing debates around language modalities inclusion practices and access to early intervention services the preparation of qualified teachers and the adoption of evidence based instructional methods play a central role in shaping positive educational outcomes for deaf children Early Childhood Deaf Education Teacher Preparation and Instructional Approaches explores teacher preparation for the diverse needs of deaf and hard of hearing children in early childhood settings It examines the effectiveness of various instructional approaches in supporting language development academic readiness and social integration This book covers topics such as literacy young students and special education and is a useful resource for educators academicians researchers and scientists

Natural Compounds in Veterinary Therapeutics Baocheng Hao, Dongan Cui, Shuaiyu Wang, 2026-02-04 Natural compounds exhibit a diverse array of structures originate from extensive sources and are characterized by their multi target multi pathway and broad pharmacological activities These include alkaloids flavonoids phenolic acids tannins terpenes and polysaccharides among other varied natural compounds Historically natural compounds have been a significant source for the discovery of new drugs With the shift of animal husbandry from traditional practices to large scale and intensive farming challenges in the prevention and treatment of animal diseases have intensified due to increased antibiotic resistance emerging diseases and mixed infections Against this backdrop the screening and discovery of natural compounds with therapeutic potential as well as elucidating their mechanisms of action have emerged as crucial strategies to address these challenges By persistently focusing on the pharmacological activities and therapeutic efficacy of natural compounds in veterinary treatments as well as the discovery of novel drug targets this approach provides a theoretical foundation and reference for the creation and development of innovative veterinary medicines This journal primarily features original research on the application of natural compounds in veterinary therapy with a specific focus on the roles of terpenoids flavonoids phenolic acids tannins polysaccharides and alkaloids These natural compounds are investigated for their potential in countering oxidative stress reducing inflammation modulating immune responses combating microorganisms and promoting intestinal health The publication accepts original contributions in the form of reviews and articles Perspective

and Strategies on Newage Education and Creative Learning Shibani Khanra Jha, Meetha V Shenoy, Tamali Bhattacharyya, Padmanabhan Seshaiyer, 2024-10-08 This book presents the proceedings of the International Conference on Best Innovative Teaching Strategies ICOBITS at BITS Pilani on Feb 9 11 2023 It brings together global academicians researchers and industry experts to delve into innovative teaching learning practices Meticulously selected and reviewed by professionals the proceedings offer cross cutting perspectives and strategies in education and creative learning It is organized into four parts and covers Innovative Pedagogical Practices for Technology Enhanced Learning Technology Society and Industry in Higher Education STEM Education and Cultural Studies Gender Studies and Sustainability in Higher Education It provides insights into assessment tools for effectively evaluating the efficiency of teaching methods Part one

explores ICT digital classrooms metaverse based teaching gamification and AI ML based practices Part two delves into the humanistic approach in technical education social networking as an educational tool and outcome based assessment needs Part three addresses future educators requirements through multidisciplinary collaboration in STEM education Part four discusses gender equity structured social inclusion and cultural skills in teaching learning practices This book is a valuable resource for academicians researchers policymakers administrators technocrats and developers actively engaged in education technology across disciplines such as Engineering Sciences Management Humanities and Social Sciences

Engaging with Mathematics in the Early Years Tamsin Meaney, Christiane Benz, Antonella Montone, Benedetto Di Paola, Michele G. Fiorentino, 2026-04-16 This Open Access book provides an overview of research being undertaken in Europe about young children s 1 8 years old mathematics education Exploring a wide variety of different environments wherein mathematics concepts in childhood education this book encompasses the most important findings of the POEM6 conference Following feedback at the conference participants have the opportunity to expand the papers into full length book chapters which will then be peer reviewed This book is especially suited for educators and researchers interested in the development of mathematical conceptualizations in early childhood educational environments [How to Assemble Boats from Kits](#) Robert

Scharff, 1961 **TBG2025** ABM, Asia Bike Media ABM TBG2025 **Genetics Abstracts** ,1992 [A Teacher's Guide to Future Ready Classroom](#) Sarah Tahawwer Ali , A Teacher s Guide to Future Ready Classroom A helpful CPD guide for fresh and veteran teachers to update Teaching practices and pedagogy with technology integration and Ai **WHO**

Classification of Tumours of the Urinary System and Male Genital Organs Holger Moch, Peter A. Humphrey, Thomas M. Ulbright, Victor E. Reuter, 2016 WHO Classification of Tumours of the Urinary System and Male Genital Organs is the eighth volume in the 4th Edition of the WHO series on histological and genetic typing of human tumours This authoritative concise reference book provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies monitoring response to therapy and clinical outcome Diagnostic criteria pathological features and associated genetic alterations are described in a strictly disease oriented manner Sections on all recognized neoplasms and their variants include new ICD O codes epidemiology clinical features macroscopy pathology genetics and prognosis and predictive factors It contains numerous color photographs MRIs ultrasound images CT scans charts and references This book is in the series commonly referred to as the Blue Book series **Purchase Guide for Programs in**

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