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Alfonso Pompella, Alessandro Corti

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Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives

The Best Class You Never Taught Alexis Wiggins, 2017-09-27 The best classes have a life of their own powered by student led conversations that explore texts ideas and essential questions In these classes the teacher's role shifts from star player to observer and coach as the students Think critically Work collaboratively Participate fully Behave ethically Ask and answer high level questions Support their ideas with evidence and Evaluate and assess their own work The Spider Web Discussion is a simple technique that puts this kind of class within every teacher's reach The name comes from the weblike diagram the observer makes to record interactions as students actively participate in the discussion lead and support one another's learning and build community It's proven to work across all subject areas and with all ages and you only need a little know how a rubric and paper and pencil to get started As students practice Spider Web Discussion they become stronger communicators more empathetic teammates better problem solvers and more independent learners college and career ready skills that serve them well in the classroom and beyond Educator Alexis Wiggins provides a step by step guide for the implementation of Spider Web Discussion covering everything from introducing the technique to creating rubrics for discussion self assessment to the nuts and bolts of charting the conversations and using the data collected for formative assessment She also shares troubleshooting tips ideas for assessment and group grading and the experiences of real teachers and students who use the technique to develop and share content knowledge in a way that's both revolutionary and truly inspiring

Super Courses Ken Bain, 2021-03-09 An exploration of some of the most intriguing college teachers pedagogy challenging traditional learning environments

The Changing Faces of Glutathione, a Cellular Protagonist Alfonso Pompella, Alessandro Corti, 2015-07-17 Glutathione GSH has been described for a long time just as a defensive reagent against the action of toxic xenobiotics drugs pollutants carcinogens both directly and as a cofactor for GSH transferases As a prototype antioxidant it has been involved in cell protection from the noxious effect of excess oxidant stress both directly and as a cofactor of glutathione peroxidases In addition it has long been known that GSH is capable of forming disulfide bonds

with cysteine residues of proteins and the relevance of this mechanism S glutathionylation in regulation of protein function has been well documented in a number of research fields Rather paradoxically it has also been highlighted that GSH and notably its catabolites as originated by metabolism by gamma glutamyltransferase can promote oxidative processes by participating in metal ion mediated reactions eventually leading to formation of reactive oxygen species and free radicals Also a fundamental role of GSH has been recognized in the storage and transport of nitric oxide NO in the form of S nitrosogluthathione GSNO The significance of GSH as a major factor in regulation of cell life proliferation and death can be regarded as the integrated result of all these roles as well as of more which are emerging in diverse fields of biology and pathophysiology Against this background modulation of GSH levels and GSH related enzyme activities represents a fertile field for experimental pharmacology in numerous and diverse perspectives of animal plant and microbiologic research This research topic includes 14 articles i e 4 Opinion Articles 6 Reviews and 4 Original Research Articles The contributions by several distinguished research groups each from his own standpoint of competence and expertise provide a comprehensive and updated view over the diverse roles the changing faces of GSH and GSH related enzymes in cell s health disease and death

Self-directed learning research and its impact on educational practice Elsa Mentz,Roxanne

Bailey,2021-05-17 This scholarly book is the third volume in an NWU book series on self directed learning and is devoted to self directed learning research and its impact on educational practice The importance of self directed learning for learners in the 21st century to equip themselves with the necessary skills to take responsibility for their own learning for life cannot be over emphasised The target audience does not only consist of scholars in the field of self directed learning in Higher Education and the Schooling sector but includes all scholars in the field of teaching and learning in all education and training sectors The book contributes to the discourse on creating dispositions towards self directed learning among all learners and adds to the latest body of scholarship in terms of self directed learning Although from different perspectives all chapters in the book are closely linked together around self directed learning as a central theme following on the work done in Volume 1 of this series Self Directed Learning for the 21st Century Implications for Higher Education to form a rich knowledge bank of work on self directed learning

Sustainable Livestock Production in the Perspective of Food Security, Policy, Genetic Resources, and Climate Change Asian-Australian Association of Animal Production Societies. Congress,2014

Proceedings that contains a total of 754 abstracts consists of 368 papers for oral presentation and 386 papers for poster

Preface **Self-Directed Learning** Elsa Mentz,Dorothy Laubscher,Jako Olivier,2021-12-31 This book on self directed learning SDL is devoted to original academic scholarship within the field of education and is the 6th volume in the North West University NWU SDL book series In this book the authors explore how self directed learning can be considered an imperative for education in a complex modern society Although each chapter represents independent research in the field of self directed learning the chapters form a coherent contribution concerning the scholarship of self directed learning and

specifically the effect of environmental and praxis contexts on the enhancement of self directed learning in a complex society The publication as a whole provides diverse perspectives on the importance of self directed learning in varied contexts Scholars working in a wide range of fields are drawn together in this scholarly work to present a comprehensive dialogue regarding self directed learning and how this concept functions in a complex and dynamic higher education context This book presents a combination of theory and practice which reflects selected conceptual dimensions of self directed learning in society as well as research based findings pertaining to current topical issues relating to implementing self directed learning in the modern world The varied methodologies provide the reader with different and balanced perspectives as well as varied and innovative ideas on how to conduct research in the field of self directed learning

Measurements in Evaluating Science Education Amy J. Catalano, Michael A. Marino, 2020-05-06 Measurements in Evaluating Science Education is a comprehensive intuitive guide to many of the key instruments created to assess science education environments learning and instruction Nearly 70 different surveys tests scales and other metrics are organized according to the qualities the measures attempt to gauge such as attitudes toward science beliefs and misconceptions self efficacy and content knowledge Summaries of each instrument usage information developmental history and validation and reported psychometric properties make this an essential reference for anyone interested in understanding science education assessment

A Pedagogy of Kindness Catherine J. Denial, 2024-07-16 A Pedagogy of Kindness articulates a fresh vision for teaching one that focuses on ensuring justice believing people and believing in people Offering evidence based insights and drawing from her own rich experiences as a professor Denial offers practical tips for reshaping syllabi assessing student performance and creating trust and belonging in the classroom

Women in Science Now Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

Earth System Evolution and Early Life A.T. Brasier, D. McIlroy, N. McLoughlin, 2017-06-09 This volume in

memory of Professor Martin Brasier which has many of his unfinished works summarizes recent progress in some of the hottest topics in palaeobiology including cellular preservation of early microbial life and early evolution of macroscopic animal life encompassing the Ediacara biota The papers focus on how to decipher evidence for early life which requires exceptional preservation employment of state of the art techniques and also an understanding gleaned from Phanerozoic lagersttte and modern analogues The papers also apply Martin s MOFAOTYOF principle my oldest fossils are older than your oldest fossils requiring an integrated approach to understanding fossils The adoption of the null hypothesis that all putative traces of life are abiotic until proven otherwise and the consideration of putative fossils within their spatial context

characterized the work of Martin Brasier as is well demonstrated by the papers in this volume **Toward Comprehensive Understanding of the Suicidal Phenomenon** Zoltán - Rihmer,Alberto Forte,Xenia Gonda,Maurizio Pompili,2021-08-10

Sustainability Standards and Global Governance Archna Negi,Jorge Antonio Pérez-Pineda,Johannes Blankenbach,2020-07-02 This open access book focuses on the issue of sustainability standards from the perspective of both global governance frameworks and emerging economies It stems from the recognition that the accelerated pace of economic globalization has generated production and consumption patterns that are generating sustainability concerns Sustainability standards and regulations are increasingly being used in a bid to make global consumption and production more sustainable Given the dense inter connectedness of economic affairs globally the use of sustainability standards has become a concern of global governance who face the challenge of achieving a balance between the use of standards for genuine sustainability objectives and not allowing them to turn into instruments of protectionism or coercion The emerging economies given their increasing engagement with the global economy are most impacted by the use of sustainability standards The emphasis of emerging economies in this book is retained both by using case studies from these economies and by collating perceptions and assessments of those located in these economies The case studies included span sectors such as palm oil forestry food quality vehicular emissions and water standards and address the problems unique to the emerging economies including capacity building for compliance with standards adapting international standards in domestic contexts and addressing the exclusion of small and medium enterprises etc Complex interfaces and dynamics of a global nature are not limited to the thematic of this book but also extend to the process through which it was written This book brings together insights from developed as well as emerging economies Germany India Mexico Brazil Indonesia Pakistan Mexico and China It also brings together scholars and practitioners to jointly ponder upon the conceptual aspects of the global frameworks for sustainability standards This book is a very useful resource for researchers and practitioners alike and provides valuable insights for policy makers as well *New Technologies for Women's Health* Lana McClements,Vesna Garovic,Dunja Aksentijevic,2022-08-08

Social Sciences and Interdisciplinary Behavior Ford Lumban Gaol,Fonny Hutagalung,Nailya Bagautdinova,Lenar Safiullin,2016-09-19 Social Sciences and Interdisciplinary Behavior contains papers that were originally presented at the 4th

International Congress on Interdisciplinary Behavior and Social Science 2015 ICIBSoS 2015 held 22-23 October 2015 at The Institute of Management Economics and Finance of the Kazan Federal University Kazan Russia and 7-8 November 2015 in Arya Duta Hotel Jakarta Indonesia The contributions deal with various interdisciplinary research topics particularly in the fields of social sciences education economics and arts The papers focus especially on such topics as language cultural studies economics behavior studies political sciences media and communication psychology and human development

The Age of Scientific Wellness Leroy Hood, Nathan Price, 2023-04-04 Taking us to the cutting edge of the new frontier of medicine a visionary biotechnologist and a pathbreaking researcher show how we can optimize our health in ways that were previously unimaginable We are on the cusp of a major transformation in healthcare yet few people know it At top hospitals and a few innovative health tech startups scientists are working closely with patients to dramatically extend their healthspan the number of healthy years before disease sets in In *The Age of Scientific Wellness* two visionary leaders of this revolution in health take us on a thrilling journey to this new frontier of medicine Today most doctors wait for clinical symptoms to appear before they act and the ten most commonly prescribed medications confer little or no benefit to most people taking them Leroy Hood and Nathan Price argue that we must move beyond this reactive hit or miss approach to usher in real precision health a form of highly personalized care they call scientific wellness Using information gleaned from our blood and genes and tapping into the data revolution made possible by AI doctors can catch the onset of disease years before symptoms arise revolutionizing prevention Current applications have shown startling results diabetes reversed cancers eliminated Alzheimer's avoided autoimmune conditions kept at bay This is not a future fantasy it is already happening but only for a few patients and at high cost It's time to make this gold standard of care more widely available Inspiring in its possibilities radical in its conclusions *The Age of Scientific Wellness* shares actionable insights to help you chart a course to a longer healthier and more fulfilling life

MBA Programs, 2001

Teaching the Arts David Roy, William Baker, Amy Hamilton, 2019-07-02 Foregrounds the importance of arts education to children's development and learning

Program Evaluation Susan P. Giancola, 2025-04-14 This text aims to build evaluation capacity by increasing knowledge about evaluation and improving skills to conduct evaluations The book's embedded approach uses program theory to understand relationships between activities and objectives logic modeling to represent the program's theory and an evaluation matrix to structure the evaluation within the program The approach is systematic and focused on continuous improvement The Second Edition adds topics suggested by users of the book incorporates content that the author has added to her own classes and covers emerging areas in evaluation since the publication of the first edition such as artificial intelligence and equity in evaluation A companion website at <http://edge.sagepub.com> Giancola2e includes a number of instructor resources including editable PowerPoint slides and assignments

Intra- and Extra-Environment and Reproduction Zhao-Jia Ge, Francesca Gioia Klinger, Teruko Taketo, 2022-12-01

Reviewing **2014 November Grade 10 Lifescience**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**2014 November Grade 10 Lifescience**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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