



Western Cape
Government

Western Cape Education Department
Directorate: Curriculum FET

LIFE SCIENCES

Grade 11

REVISION 2023

TERMS 3 AND 4

ANSWER

2014 November Grade 10 Lifescience

Jicheng Xie

2014 November Grade 10 Lifescience:

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.

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 nitrosoglutathione 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 *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 *MBA Programs* ,2001 *Safety and Reliability - Safe Societies in a Changing World* Stein Haugen,Anne Barros,Coen Gulijk,Trond Kongsvik,Jan Erik Vinnem,2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing

world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management Safety and Reliability Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and aerospace marine transport and engineering railways road transport automotive engineering civil engineering critical infrastructures electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications insurance and finance manufacturing marine transport mechanical engineering security and protection and policy making

The Complete Book of Colleges ,2001

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2010 *Canadian Books in Print* ,1997

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