



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

2023 FINAL PAPER

LIFE SCIENCES PAPER 1



Diagram 1

Diagram 2

- 1.5.1 Identify part F.
- 1.5.2 Give the collective term for bones B.
- 1.5.3 Give the LETTER and NAME of the structure that

2023



- 1.5.1 Identify structure A.
- 1.5.2 Name FIVE sources of food A.
- 1.5.3 Describe the structural difference between area B and area C.

Abiotic acid concentration in a cherry tree during different seasons of the year



Paper 1life Sciences 2014 September

**Paolo Tieri,Christine Nardini,Jennifer
Elizabeth Dent**



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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

Ethics and Integrity in Health and Life Sciences Research Zvonimir Koporc, 2018-12-06 This important volume covers ethics and integrity in health and life sciences research It addresses concerns in gene editing dual use and misuse of biotechnologies big data and nutritional science in health and medicine and covers attempts at ensuring ethical practices in such fields are shared internationally

Essentials of Biological Security Lijun Shang, Weiwen Zhang, Malcolm Dando, 2024-02-27 *Essentials of Biological Security* A guide to minimizing the threat of misusing benignly intended and dual use biological research In *Essentials of Biological Security A Global Perspective* a team of distinguished researchers delivers a fundamental resource designed to raise awareness and understanding of biological security as it pertains to the malign manipulation of benignly intended scientific research Written by experts who have spent decades involved in biological security issues the book is systematically organized to make it accessible to a wide range of life scientists likely to encounter dangerous opportunities for the deliberate misuse of their research Readers will also find A thorough introduction to biological security and the chemical and biological weapons CBW threat spectrum Comprehensive explorations of the history of biological weapons from antiquity to modern day Practical discussions of dual use technologies and how to minimize their risk Expert analyses of the Biological and Toxin Weapons Convention and other relevant international agreements and organizations Perfect for professionals working in life sciences medicine global health biosafety and biosecurity *Essentials of Biological Security A Global Perspective* will also benefit anyone with an interest in and being responsible for biological security

International Science and Technology Education Ortwin Renn, Nicole C. Karafyllis, Andreas Hohlt, Dorothea Taube, 2015-06-24 Education in science technology engineering and mathematics STEM is crucial for taking advantage of the prospects of new scientific discoveries initiating or promoting technological changes and managing opportunities and risks associated with innovations This book explores the emerging perspectives and methodologies of STEM education and its relationship to the cultural understanding of science and technology in an international context The authors provide a unique perspective on the subject

presenting materials and experiences from non European industrialized as well as industrializing countries including China Japan South Korea India Egypt Brazil and the USA The chapters offer a wide scope of interpretations and comparative reviews of STEM education by including narrative elements about cultural developments considering the influence of culture and social perceptions on technological and social change and applying innovative tools of qualitative social research The book represents a comprehensive and multidisciplinary review of the current status and future challenges facing STEM education across the world including issues such as globalization interdependencies of norms and values effects on equity and social justice as well as resilience Overall the volume provides valuable insights for a broad and comprehensive international comparison of STEM philosophies approaches and experiences

Undergraduate Research at Community Colleges Nancy H. Hensel, 2023-07-03 Co published with the Council on Undergraduate Research This book highlights the exciting work of two year colleges to prepare students for their future careers through engagement in undergraduate research It emerged from work in five community college systems thanks to two National Science Foundation grants the Council for Undergraduate Research received to support community colleges efforts to establish undergraduate research programs Chapters one two and three provide background information about community colleges undergraduate research and the systems the author worked with California City University of New York Maricopa Community College District Arizona Oklahoma and Tennessee Chapter four examines success strategies The next five chapters look at five approaches to undergraduate research basic applied course based community based interdisciplinary and partnership research Chapters ten eleven and twelve discuss ways to assess and evaluate undergraduate research experiences inclusive pedagogy and ways to advance undergraduate research Today there are 942 public community colleges in the United States providing affordable access to 6 8 million students who enrolled for credit in one of the public two year institutions in the United States Students are more prepared for the next step in their education or careers after participating in quality UR experiences

Appearance in Reality John Heil, 2021-09-16 In Appearance in Reality John Heil addresses a question at the heart of metaphysics how are the appearances related to reality how does what we find in the sciences comport with what we encounter in everyday experience and in the laboratory Objects for instance appear to be colourful noisy self contained and massively interactive Physics tells us they are dynamic swarms of colourless particles or disturbances in fields or something equally strange Is what we experience illusory present only in our minds But then what are minds Do minds elude physics Or are the physicist s depictions mere constructs with no claim to reality Perhaps reality is hierarchical physics encompasses the fundamental things the less than fundamental things are dependent on but distinct from these Heil s investigation advances a fourth possibility the scientific image what we have in physics affords our best guide to the nature of what the appearances are appearances of

Genetically Modified Organisms Giovanni Molteni Tagliabue, 2023-04-20 Due to an intricate web of psychological socio political and economic factors an alliance of ill advised forces of radical activism and powerful

commercial interests encourage the rejection of so called genetically modified organisms GMOs that is agri food products whose DNA has been directly retouched or recombined rDNA While the pseudo concept has no scientific meaning the opponents of the agro industry insist on attacking it as an alleged symbol of the exploitation of nature for greed and profit this socio political struggle in itself legitimate but directed at the wrong target fosters doubts and fears about the supposed negative effects of GMOs on the environment and health Instead scientists recommend carefully checking new individual plant varieties or animal breeds regardless of how they are obtained through rDNA or other processes Similarly the important socio economic pros and cons of the cultivation and consumption of agri food novelties in richer or poorer countries as well should be assessed independently of the developers biotech methods The book explains this contemporary taboo and calls for a well regulated use of all biotechnological innovations ending the decades long quagmire which stymies public research and its philanthropic repercussions

Diverse Excursions in the Southeast: Paleozoic to Present Ann E. Holmes, 2015-03-09 This volume contains field guides to the 2015 GSA Southeastern Section Meeting s field trips The guides explore geologic history and visit four regional geologic provinces the Nashville dome Blue Ridge Valley and Ridge and Cumberland Plateau

Critical Role of Animal Science Research in Food Security and Sustainability National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world s population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world s animal agriculture system Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of Critical Role of Animal Science

Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century

How America Stacks Up Edward Alden, Rebecca Strauss, 2016-02-01 American leadership in the world is built on the foundation of its economic strength Yet the United States faces enormous economic competition abroad and threats to its economy at home In *How America Stacks Up* Economic Competitiveness and U S Policy Edward Alden Bernard L Schwartz senior fellow at the Council on Foreign Relations and director of the Renewing America initiative and Rebecca Strauss associate director of Renewing America focus on those areas of economic policy that are the most important for reinforcing America s competitive strengths Covering education transportation trade and investment corporate tax worker retraining regulation debt and deficits and innovation *How America Stacks Up* shows how in a highly competitive global economy these seemingly domestic issues are all crucial to U S success in the global economy The line between domestic economic policy and foreign economic policy is now almost invisible and getting these policies right matters for more than just U S living standards The United States ability to influence world events rests on a robust competitive economy But without further investment in education infrastructure and innovation Alden and Strauss show the United States runs the risk of endangering its greatest competitive advantage Through insightful analysis and engaging graphics *How America Stacks Up* outlines the challenges faced by the United States and prescribes solutions that will ensure a healthy competitive U S economy for years to come

A Fractal Analysis of Chemical Kinetics with Applications to Biological and Biosensor Interfaces Ajit Sadana, Neeti Sadana, Richa Sadana, 2018-07-18 *A Fractal Analysis of Chemical Kinetics with Applications to Biological and Biosensor Interfaces* analyzes the kinetics of binding and dissociation of different analytes by different biosensor techniques demonstrating and then comparing each other Emphasis is on newer instrumentation techniques such as surface plasmon resonance imaging SPRi and classical techniques such as surface plasmon resonance SPR and finally DNA biosensors and nanobiosensors In addition the closing chapter includes discussion of biosensor economics Presents and compares different biosensor techniques Evaluates the kinetics of binding and dissociation of different analytes on biosensor surfaces Explores the major applications of biosensors in the field

Governing Intellectual Property Rights Within Publicly Funded Biobanks Rajam Neethu, 2019-06-21 *Governing Intellectual Property Rights Within Publicly Funded Biobanks* R Neethu The boom in biobanks and health databases as research infrastructures have evoked various legal and ethical debates Since then numerous new developments have emerged such as digitalization big data research and artificial intelligence which has important implications for biobank based research and collaborations This new paradigm offers new legal challenges for commercial involvement particularly within a publicly funded setting In this innovative book the author shows that securing maximum social benefit out of the knowledge emanating from the use of biobank resources lies in managing intellectual property inputs and outputs effectively in keeping with the values core to such research Focusing on the challenges of involving intellectual

property rights IPRs particularly in the precompetitive phase of biobank based research the book offers an extensive understanding of the role of different IPRs and identifies the gaps in the law and its implications for biobanks The analysis covers important aspects in relation to biobanks such as Digital integration and biomedical data storage Ownership of biological samples Commercialization and benefit sharing Partnership models Public sector research Disposition of samples Consent Cross border exchange Trade secrecy Privacy Regulatory stewardship Business strategies Ethical considerations over biological resources Patenting of inventions relating to personalized medicine Ethical parameters within patent law and Rights regarding genetic data and databases The book includes observations case studies and interviews conducted by the author In conclusion the author offers cogent recommendations for legal interoperability of IP rules and research practices designed to enhance the ability of biobanks to share access and reuse data This book is the first of its kind to explore the organizational and legislative choices for biobanks particularly while engaging in the protection of research results and technology transfer within a publicly funded setting It will be of substantial interest to all stakeholders in biobanking especially policymakers biobankers and researchers working in the field of health law as well as for legal practitioners academics and patient interest groups

Interactional Research Into Problem-Based Learning Susan M. Bridges, Rintaro Imafuku, 2020-08-15 Problem based learning PBL has been deployed as a student centered instructional approach and curriculum design in a wide range of academic fields across the world The majority of educational research to date has focused on knowledge based outcomes addressing why PBL is useful Researchers of PBL are developing a growing interest in qualitative research with a process driven orientation to examining learning interactions It is essential to broaden this research base so as to support PBL designs and approaches to leading students into higher order thinking and a deeper approach to learning Interactional Research Into Problem Based Learning explores how students learn in an inquiry led approach such as PBL Included are studies that focus on learning in situ and go beyond measuring the outcomes of PBL The goal is to further expand the PBL research base of qualitative investigations examining the social dimension and lived experience of teaching and learning within the PBL process A second aim of this volume is to shed light on the methodological aspects of researching PBL adding new perspectives to the current trends in qualitative studies on PBL Chapters cover ethnographic approaches to video analysis introspective protocols such as stimulated recall and longitudinal qualitative studies using discourse based analytic approaches Specifically this book will further contribute to the current educational research both theoretically and empirically in the following key areas students learning processes in PBL over time and across contexts the nature of quality interactions in PBL tutorials the inter cultural aspects of learning in PBL facilitation processes and group dynamics in synchronous and asynchronous face to face and blended PBL and the developing nature of PBL learner identity

Beyond Technonationalism Kathryn C. Ibata-Arens, 2019-04-16 The biomedical industry which includes biopharmaceuticals genomics and stem cell therapies and medical devices is among the fastest growing

worldwide While it has been an economic development target of many national governments Asia is currently on track to reach the epicenter of this growth What accounts for the rapid and sustained economic growth of biomedical in Asia To answer this question Kathryn Iбата Arens integrates global and national data with original fieldwork to present a conceptual framework that considers how national governments have managed key factors like innovative capacity government policy and firm level strategies Taking China India Japan and Singapore in turn she compares each country s underlying competitive advantages What emerges is an argument that countries pursuing networked technonationalism NTN effectively upgrade their capacity for innovation and encourage entrepreneurial activity in targeted industries In contrast to countries that engage in classic technonationalism like Japan s developmental state approach networked technonationalists are global minded to outside markets while remaining nationalistic within the domestic economy By bringing together aggregate data at the global and national level with original fieldwork and drawing on rich cases Iбата Arens telegraphs implications for innovation policy and entrepreneurship strategy in Asia and beyond

OECD Green Growth Studies Farm Management Practices to Foster Green Growth OECD,2016-02-23 This report looks at farm management practices with green growth potential from farmer led innovations such as those directly linked to soil and water Integrated Pest Management organic farming to science led technologies such as biotechnology and precision agriculture

Cities in Transition Thomas Sauer,Susanne Elsen,Cristina Garzillo,2016-02-26 Cities in Transition focuses on the sustainability transitions initiated in 40 European cities The book presents the incredible wealth of insights gathered through hundreds of interviews and questionnaires Four key domains local energy systems local green spaces local water systems and local labour markets have been the focus of the field research investigating local potentials for social innovation and new forms of civil society self organisation Examining the potential of new organizational frameworks like co operatives multi stakeholder constructions local regional partnerships and networks for the success of such transitions this book presents the key ingredients of a sustainable urban community as a viable concept to address current global financial environmental and social challenges Crucial reading for academics and practitioners of urban planning and sustainability in Europe Cities in Transition is an innovative roadmap for sustainability in changing cities

Food Safety in the Seafood Industry Nuno F. Soares,António A. Vicente,Cristina M. A. Martins,2016-03-07 Seafood is one of the most traded commodities worldwide It is thus imperative that all companies and official control agencies ensure seafood safety and quality throughout the supply chain Written in an accessible and succinct style Food Safety in Seafood Industry A practical guide for ISO 22000 and FSSC 22000 implementation brings together in one volume key information for those wanting to implement ISO 22000 or FSSC 22000 in the seafood manufacturing industry Concise and highly practical this book comprises a presentation of seafood industry and its future perspectives the description of the main hazards associated to seafood including an annexe featuring the analysis of notifications related with such hazards published by Rapid Alert System for Food and Feed RASFF interpretation of ISO

22000 clauses together with practical examples adapted to the seafood manufacturing industry the presentation of the most recent food safety scheme FSSC 22000 and the interpretation of the additional clauses that this scheme introduces when compared to ISO 22000 This practical guide is a valuable resource for seafood industry quality managers food technologists managers consultants professors and students This book is a tool and a vehicle for further cooperation and information interchange around seafood safety and food safety systems QR codes can be found throughout the book when scanned they will allow the reader to contact the authors directly know their personal views on each chapter and even access or request more details on the book content We encourage the readers to use the QR codes or contact the editors via e mail foodsafetybooks gmail com or Twitter foodsafetybooks to make comments suggestions or questions and to know how to access the Extended Book Content

Multi-omic Data Integration Paolo Tieri,Christine Nardini,Jennifer Elizabeth Dent,2015-09-17 Stable predictive biomarkers and interpretable disease signatures are seen as a significant step towards personalized medicine In this perspective integration of multi omic data coming from genomics transcriptomics glycomics proteomics metabolomics is a powerful strategy to reconstruct and analyse complex multi dimensional interactions enabling deeper mechanistic and medical insight At the same time there is a rising concern that much of such different omic data although often publicly and freely available lie in databases and repositories underutilised or not used at all Issues coming from lack of standardisation and shared biological identities are also well known From these considerations a novel pressing request arises from the life sciences to design methodologies and approaches that allow for these data to be interpreted as a whole i e as intertwined molecular signatures containing genes proteins mRNAs and miRNAs able to capture inter layers connections and complexity Papers discuss data integration approaches and methods of several types and extents their application in understanding the pathogenesis of specific diseases or in identifying candidate biomarkers to exploit the full benefit of multi omic datasets and their intrinsic information content Topics of interest include but are not limited to Methods for the integration of layered data including but not limited to genomics transcriptomics glycomics proteomics metabolomics Application of multi omic data integration approaches for diagnostic biomarker discovery in any field of the life sciences Innovative approaches for the analysis and the visualization of multi omic datasets Methods and applications for systematic measurements from single undivided samples comprising genomic transcriptomic proteomic metabolomic measurements among others Multi scale approaches for integrated dynamic modelling and simulation Implementation of applications computational resources and repositories devoted to data integration including but not limited to data warehousing database federation semantic integration service oriented and or wiki integration Issues related to the definition and implementation of standards shared identities and semantics with particular focus on the integration problem Research papers reviews and short communications on all topics related to the above issues were welcomed

Second Generation Cell and Gene-Based Therapies Alain Vertes,Nathan J. Dowden,Devyn Smith,Nasib Qureshi,2020-02-07 Second Generation Cell and

Gene Based Therapies Biological Advances Clinical Outcomes and Strategies for Capitalisation serves as the only volume to the market to bridge basic science clinical therapy technology development and business in the field of cellular therapy cytotherapy After more than two decades of painstaking fundamental research the concept of therapeutic cells stem cells genes etc beyond the concept of vaccines is reaching clinical trial with mounting confidence in the safety and efficacy of these products Nonetheless numerous incremental technical advances remain to be achieved Thus this volume highlights the possible R D paths which will ultimately facilitate clinical delivery of cutting edge curative products The next waves of innovation are reviewed in depth for hematopoietic stem cells mesenchymal stem cells tissue engineering CAR T cells and cells of the immune system as well as for enabling technologies such as gene and genome editing Additionally deep dives in product fundamentals history of science pathobiology of diseases scientific and technological bases and financing and technology adoption constraints are taken to unravel what will shape the cytotherapy industry to the horizon 2025 and beyond The outcome is not simply a scientific book but a global perspective on the nascent field combining science business and strategic fundamentals Helps readers learn about the most current trends in cell based therapy their overall effectiveness from a clinical prospective and how the industry is moving therapies forward for capitalization Perspectives section at the end of each chapter summarizes key learnings hypotheses and objectives highlighted and combines scientific and business insights Edited and authored by scientists representing both basic and clinical research and industry presenting a complete story of the current state and future promise of cellular therapies

Proliferation of Weapons- and Dual-Use Technologies Margaret E. Kosal, 2021-07-26 This book explores and analyzes the rapid pace of technological evolution in diplomatic information military and economic sectors which has contributed to a dynamic international policy environment Global political stability is greatly influenced by innovations originating from numerous sources including university labs the technology sector and military research Collectively these innovations guide the movement of people ideas and technology that in turn affect the international balance of power The objective of this volume is to develop new insights into how the proliferation of innovative ideas low cost weapons and dual use technologies impact the changing global security landscape Innovative and dual use technologies can be used for beneficial purposes or defensive purposes Alternatively they may be appropriated or employed for nefarious purposes by hostile military powers and non state actors alike Such actions can threaten global security and stability As the complexity of technological innovations continues to increase existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time As such this work seeks to assess and present policy solutions to curtail the threat to global stability posed by the proliferation of weapons and dual use technology

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