



# basic education

DEPARTMENT OF  
BASIC EDUCATION  
REPUBLIC OF SOUTH AFRICA

**NATIONAL  
RESEARCH CERTIFICATE**

**GRADE 12**

**LIFE SCIENCE  
PROGRAMME**

GRADE 12  
LIFE SCIENCE

This question paper consists of 10 pages.

# Life Science P1 June 2014 Gauteng

**M Woodhall**



## **Life Science P1 June 2014 Gauteng:**

### **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.

*Rehabilitation Robots for Neurorehabilitation in High-, Low-, and Middle-Income Countries* Michelle Jillian Johnson, Rochelle J. Mendonca, 2023-10-27 *Rehabilitation Robots for Neurorehabilitation in High Low and Middle Income Countries: Current Practice, Barriers, and Future Directions* describes the state of art research of stroke rehabilitation using robot systems in selected High Income Countries (HICs) and Low and Middle Income Countries (LMICs) along with potential solutions that enable these technologies to be available to clinicians worldwide regardless of country and economic status. The book brings together engineers and clinicians, offers insights into healthcare disparities, and highlights potential solutions to facilitate the availability and accessibility of more robot systems to stroke survivors and their clinicians worldwide regardless of country and economic status. In addition, the book provides examples on how robotic technology is used to bridge rehabilitation gaps in LMICs and describes potential strategies for increasing the expansion of robot-assisted stroke rehabilitation across more LMICs. Provides a global picture of robot-assisted neurorehabilitation. Describes stroke healthcare in selected LMICs and selected HICs along with disparity issues. Discusses potential barriers to the penetration of rehabilitation robots into LMICs. Presents concrete examples on how clinicians and engineers have begun to address healthcare gaps with rehabilitation robotics and how to deal with accessibility barriers. The Good, The Bad and The Ugly:

Multiple Roles of Bacteria in Human Life Tatiana Venkova, Chew Chieng Yeo, Manuel Espinosa, 2018-10-17 Bacteria are among the earliest forms of life on Earth. Notwithstanding their small size and primitive origin, bacteria still have a tremendous impact on everyday human life. Over the centuries, research into bacteria has provided and enriched the fundamental biological knowledge due to their readily measured processes and effects on higher organisms. Although molecular genetics and microbiology were among the scientific fields that have mostly benefited from the discoveries made in bacteria, our current state of knowledge has gone beyond what anyone could have ever imagined. The present Research Topic aims to cover new and exciting broad aspects of the importance of bacteria to human life, both positive and negative.

influences Regulation of bacterial gene expression replication and segregation control mechanisms cell to cell communication via quorum sensors and the relatively recent finding of bacterial immunity via CRISPR have led to the development of many and very important new tools in biotechnology and the emerging field of molecular medicine The battle against infectious diseases has also benefited from the genetic approaches that have been developed in the quest for finding new targets and novel drugs against pathogenic bacteria At the next level the human microbiome project has opened up new avenues in understanding the role of bacteria in human health and wellbeing Finally the relationship between bacterial infections and human cancers will also be covered a subject that is still under verification through rigorous experimental approaches Special emphasis will be given to the bacterial accessory genome i e the mobilome as the primary cause of health threatening antimicrobial resistance and the production of toxins and virulence factors Taking into account the evolutionary importance of horizontal gene transfer and the additional beneficial roles of certain bacterial mobile genetic elements they help project best the Good the Bad and the Ugly outline of this topic At the time this eBook is about to be published our Research Topic has registered nearly 55 000 views

**Evolving Mechanisms of Disease Tolerance** Maziar Divangahi,Irah L. King,2020-02-03 **Science Abstracts** ,1960 **Endoplasmic reticulum - shape and function in stress translation** Patrick Schäfer,Lorenzo Frigerio,Federica Brandizzi,Stephen H Howell,2015-05-05 The endoplasmic reticulum ER is a manufacturing unit in eukaryotic cells required for the synthesis of proteins lipids metabolites and hormones Besides supporting cellular signalling networks by its anabolic function the ER on its own or in communication with other organelles directly initiates signalling processes of physiological significance Based on the intimate and immediate involvement in stress signalling the ER is considered as sensory organelle on which cells strongly rely to effectively translate environmental cues into adaptive stress responses The transcellular distribution of the ER providing comprehensive cell to cell connections in multicellular organisms probably allows a concerted action of cell alliances and tissue areas towards environmental constraints At the cellular level stress adaptation correlates with the capability of the ER machinery to synthesise proteins participating in stress signalling as well as in the activation of ER membrane localised proteins to start cell protective signalling processes Importantly depending on the stress insult the ER either supports protective strategies or initiates cell death programmes Recent genetic molecular and cell biological studies have drawn an initial picture of underlying signalling events activated by ER membrane localised proteins In this Research Topic we provided a platform for articles describing research on ER morphology and metabolism with a focus on stress translation The Research Topic is sub divided into the following sections 1 ER in stress signalling and adaptation 2 ER structure and biosynthetic functions 3 Regulation of protein processing 4 Regulation of programmed cell death

*Science Citation Index* ,1994 Vols for 1964 have guides and journal lists [Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971](#) New York Public Library. Research Libraries,1979 [Arts & Humanities Citation Index](#) ,1994

## **Life Science P1 June 2014 Gauteng** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Life Science P1 June 2014 Gauteng**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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