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KWAZULU-NATAL PROVINCE

**EDUCATION
REPUBLIC OF SOUTH AFRICA**

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

**LIFE SCIENCES P2
MARKING GUIDELINES
PREPARATORY EXAMINATION
SEPTEMBER 2024**

MARKS: 150

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Life Sciences P2 September

Katrin Zwirgmaier



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Management ,1989 *Nuclear Science Abstracts* ,1969-03 *ESA Bulletin* European Space Agency,1988

Management: A Bibliography for NASA Managers ,1989 Neuronal Self-Defense: Compensatory Mechanisms in Neurodegenerative Disorders Rosanna Parlato,Pier Giorgio Mastroberardino,2016-02-26 Neurodegenerative disorders are characterized by the progressive loss of specific populations of neurons with consequent deterioration of brain s function and dramatic impact on human behavior At present there are no effective cures for neurodegenerative diseases Because unambiguous diagnosis is possible only after manifestation of symptoms when a large proportion of neurons has been already lost therapies are necessarily confined to alleviation of symptoms Development of cures halting the disease course is hampered by our rudimentary understanding of the etiopathology Most neurodegenerative disorders are sporadic and age related and even for those of known genetic origin the mechanisms influencing disease onset and progression have not been fully characterized The different diseases however share important similarities in the mechanisms responsible for neuronal loss which is caused by a combination of endogenous and exogenous challenges Trophic deprivation oxidative stress accumulation of abnormal protein aggregates and bioenergetics defects have been described in most if not all neurodegenerative disease To counterbalance these noxious stimuli cells deploy at least during the initial pathogenic states intrinsic neuroprotective responses These are general compensatory mechanisms common to several neurodegenerative conditions which reprogram cellular physiology to overcome stress Adaptation includes strategies to optimize energetic resources for instance reduction of rRNA synthesis to repress translation suppression of transcription and bioenergetics and metabolic redesign Additional mechanisms include potentiation of antioxidant capacity induction of endoplasmic reticulum ER stress and activation of protein quality control systems and autophagy Ineffective execution of these compensatory strategies severely threatens cellular homeostasis and favors onset of pathology Therefore a better understanding of these buffering mechanisms and of their interconnections may help to devise more effective therapeutic tools to prolong neuronal survival and activity independently of the original genetic mutations and stress insults This Research Topic focuses on the initial compensatory responses protecting against failure of those mechanisms that sustain neuronal survival and activity The collection intends to summarize the state of the art in this field and to propose novel research contributes with the ultimate goal of inspiring innovative studies aimed to contrast progression of neurodegenerative diseases **IRCS Medical Science** ,1983 Compiled from papers published in various IRCS medical science specialist journals *Proceedings of the National Academy of Sciences of the United States of America* National Academy of Sciences (U.S.),2007 **The Indian Journal of Agricultural Sciences** ,2012 Government Reports Announcements & Index ,1988 Jahresbericht International Union of Forestry Research Organizations,1989 *A Checklist of Official Publications of the State of New York* New York State Library,1974 **Rural Futures** ,2000 **Comprehensive Bibliography of Existing Literature on Tobacco** Robert S.

Gold,William H. Zimmerli,Winnifred K. Austin,1975 Over 4300 entries to books journal articles government publications and dissertations Intended as current listing Also covers foreign language literature References arranged by authors under broad topics or by form of material Titles in entries are in English and original language Author topical subject indexes **The College Courant** ,1870 **English Mechanic and Mirror of Science and Art** ,1925 English Mechanic and World of Science ,1913 Nature ,1898 A Reference Handbook of the Medical Sciences Embracing the Entire Range of Scientific and Practical Medicine and Allied Science ,1901 Acta Agronomica Hungarica ,2007 **Government Reports Annual Index** ,1984 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z

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