

Ib Biology May 2014 Mark Scheme

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Endoplasmic reticulum - shape and function in stress translation
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in the past 20 years protein engineering has been used for the production of

proteins mostly for biological applications the incorporation of artificial amino acids and chemical handles into proteins had made possible the design and production of protein based materials like hybrid inorganic organic materials smart responsive materials monodisperse polymers and nanoscale assemblies in the current topic we cover current uses and envision future applications of materials generated using protein engineering and biosynthesis techniques i would like to acknowledge the u s office of naval research for financial support and dr cherise bernard for her contributions during the early stages of the research topic

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

protein phosphorylation is one of the most abundant reversible post translational modifications in eukaryotes it is involved in virtually all cellular processes by regulating protein function localization and stability and by mediating protein protein interactions furthermore aberrant protein phosphorylation is implicated in the onset and progression of human diseases such as cancer and neurodegenerative disorders in the last years tens of thousands of in vivo phosphorylation events have been identified by large scale quantitative phospho

proteomics experiment suggesting that a large fraction of the proteome might be regulated by phosphorylation this data explosion is increasingly enabling the development of computational approaches often combined with experimental validation aiming at prioritizing phosphosites and assessing their functional relevance some computational approaches also address the inference of specificity determinants of protein kinases phosphatases and the identification of phosphoresidue recognition domains in this context several challenging issues are still open regarding phosphorylation including a better understanding of the interplay between phosphorylation and allosteric regulation agents and mechanisms disrupting or promoting abnormal phosphorylation in diseases the identification and modulation of novel phosphorylation inhibitors and so forth furthermore the determinants of kinase and phosphatase recognition and binding specificity are still unknown in several cases as well as the impact of disease mutations on phosphorylation mediated signaling the articles included in this research topic illustrate the very diverse aspects of phosphorylation ranging from structural changes induced by phosphorylation to the peculiarities of phosphosite evolution some also provide a glimpse into the huge complexity of phosphorylation networks and pathways in health and disease and underscore that a deeper knowledge of such processes is essential to identify disease biomarkers on one hand and design more effective therapeutic strategies on the other

your brain is shrinking does it matter rethinking the brain challenges us to think differently rather than just concentrating on the many wonderful things the brain can do this entertaining insight into its complexities and contradictions asks whether in fact we can live satisfactorily without some of it the bad news is that our brains start to shrink from our mid thirties but the good news is that we still seem to generally muddle along and our brain is able to adapt in extraordinary ways when things going wrong alexis willett and jennifer barnett shed light on what the human brain can do in both optimal and suboptimal conditions and consider what it can manage without through fascinating facts and figures case studies and hypothetical scenarios expert interviews and scientific principles they take us on a journey from the ancient mists of time to the far reaches of the future via different species and lands is brain training the key to healthy ageing do women really experience baby brain is our brain at its evolutionary peak or do we have an even more brilliant future to look forward to we discover the answers to these questions and more

as the world struggles to reduce its dependence on fossil fuels and curb greenhouse gas emissions industrial biotechnology is also going green escherichia

coli has long been used as a model gram negative bacterium not only for fundamental research but also for industrial applications recently however cyanobacteria have emerged as candidate chassis for the production of commodity fuels and chemicals utilizing co₂ and sunlight as the main nutrient requirements in addition to their potential for reducing greenhouse gas emissions and lowering production costs cyanobacteria have naturally efficient pathways for the production metabolites such as carotenoids which are of importance in the nutraceutical industry the unique metabolic and regulatory pathways present in cyanobacteria present new challenges for metabolic engineers and synthetic biologists moreover their requirement for light and the dynamic regulatory mechanisms of the diurnal cycle further complicate the development and application of cyanobacteria for industrial applications consequently significant advancements in cyanobacterial engineering and strain development are necessary for the development of a green e coli this research topic will focus on cyanobacteria as organisms of emerging industrial relevance including research focused on the development of genetic tools for cyanobacteria the investigation of new cyanobacterial strains the construction of novel cyanobacterial strains via genetic engineering the application of omics tools to advance the understanding of engineered cyanobacteria and the development of computational models for cyanobacterial strain development

this topic covers emerging knowledge about the properties and functions of the outer membranes of chloroplasts and mitochondria these outer membranes house various processes necessary for efficient communication and thus integration of the organelles with and into their surroundings in the cytoplasm such processes include but are not limited to protein import organelle division organelle movement metabolism and metabolite ion transport recent molecular genetic biochemical and cell biological studies have revealed functions of various outer membrane proteins these findings have helped address and generate diverse biological and evolutionary questions at molecular cellular and whole organism levels the topic should encourage contributions of scientists from various disciplines and thus would provide the field with opportunities to think outside the box and to develop potential collaborations the topic is also aimed to stimulate interests of general audience in the outer membranes of chloroplasts and mitochondria

in recent years the bioarchaeology of southeast asia and the pacific islands has seen enormous progress this new and exciting research is synthesised contextualised and expanded upon in the routledge handbook of bioarchaeology in southeast asia and the pacific islands the volume is divided into two broad

sections one dealing with mainland and island southeast asia and a second section dealing with the pacific islands a multi scalar approach is employed to the bio social dimensions of southeast asia and the pacific islands with contributions alternating between region and or site specific scales of operation to the individual or personal scale the more personal level of osteobiographies enriches the understanding of the lived experience in past communities including a number of contributions from sub disciplinary approaches tangential to bioarchaeology the book provides a broad theoretical and methodological approach providing new information on the globally relevant topics of farming population mobility subsistence and health no other volume provides such a range of coverage on these important themes

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