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An ideal reference guide to introducing the IB Diploma in your school.

Gamma/delta (γδ) T-cells are a small subset of T-lymphocytes in the peripheral circulation but constitute a major T-cell population at other anatomical localizations such as the epithelial tissues. In contrast to conventional α/β T-cells, the available number of germline genes coding for T-cell receptor (TCR) variable elements of γδ T-cells is very small.

Moreover, there is a prefential localization of γδ T-cells expressing given Vgamma and Vdelta genes in certain tissues. In humans, γδ T-cells expressing the Vg9Vd2-encoded TCR account for anywhere between 50 and >95% of peripheral blood γδ T-cells, whereas cells expressing non-Vd2 genes dominate in mucosal tissues. In mice, there is an ordered appearance of γδ T-cell „waves“ during embryonic development, resulting in preferential localization of γδ T-cells expressing distinct VgammaVdelta genes in the skin, the reproductive organs, or gut epithelia. The major function of γδ T-cells resides in local immunosurveillance and immune defense against infection and malignancy. This is supported by the

identification of ligands that are selectively recognized by the γδ TCR. As an example, human Vgamma9Vdelta2 T-cells recognize phosphorylated metabolites („phosphoantigens“) that are secreted by many pathogens but can also be overproduced by tumor cells, providing a basis for a role of these γδ T-cells in both anti-infective and anti-tumor immunity. Similarly, the recognition of endothelial protein C receptor by human non-Vdelta2 γδ T-cells has recently been identified to provide a link for the role for such γδ T-cells in immunity against epithelial tumor cells and cytomegalovirus-infected endothelial cells. In addition to „classical“ functions such as cytokine production and cytotoxicity, recent studies

suggest that subsets of γδ T-cells can exert additional functions such as regulatory activity and – quite surpisingly – „professional“ antigen-presenting capacity. It is currently not well known how this tremendous extent of functional plasticity is regulated and what is the extent of γδ TCR ligand diversity. Due to their non-MHC-restricted recognition of unusual stress-associated ligands, γδ T-cells have raised great interest as to their potential translational application in cell-based immunotherapy. Topics of this Research Focus include: Molecular insights into the activation and differentiation requirements of γδ T-cells, role of pyrophosphates and butyrophilin molecules for the activation of human γδ T-cells, role of γδ T-cells in

tumor immunity and in other infectious and non-infectious diseases, and many others. We are most grateful to all colleagues who agreed to write a manuscript. Thanks to their contributions, this E-book presents an up-to-date overview on many facets of the still exciting γδ T-cells. Dieter Kabelitz & Julie Déchanet-Merville

This is the latest updated edition of the University of Cambridge's official statutes and Ordinances.

Biosurfactants are structurally diverse group of

bioactive molecules produced by a variety of microorganisms. They are secondary metabolites that accumulate at interfaces, reduce surface tension and form micellar aggregates. This research topic describes few novel microbial strains with a focus on increasing our understanding of genetics, physiology, regulation of biosurfactant production and their commercial potentials. A major stumbling block in the commercialization of biosurfactants is their high cost of production. Many factors play a significant role in making the process cost-effective and the most important one being the use of low-cost substrates such as agricultural residues for the production of biosurfactants. With the stringent government

regulations coming into effect in favor of production and usage of the bio-based surfactants, many new companies aim to commercialize technologies used for the production of biosurfactants and to bring down costs. This Research Topic covers a compilation of original research articles, reviews and research commentary submitted by researchers enthusiastically working in the field of biosurfactants and highlights recent advances in our knowledge of the biosurfactants and understanding of the biochemical and molecular mechanisms involved in their production, scale-up and industrial applications. Apart from their diverse applications in the field of bioremediation, enhanced oil recovery, cosmetic, food

and medical industries, biosurfactants can also boast off their unique eco-friendly nature to attract consumers and give the chemical surfactants a tough competition in the global market. This biosurfactant focused research topic aims to summarize the current achievements and explore the direction of development for the future generation of biosurfactants and bioemulsifiers. Some of the biosurfactant optimization processes presented are well-structured and already have a well-established research community. We wish to stimulate on-going discussions at the level of the biosurfactant production including common challenges in the process development, novel organisms and new

feedstock and technologies for maximum benefit, key features of next generation biosurfactants and bioemulsifiers. We have compiled the research outputs of international leaders in the filed of biosurfactant particularly on the development of a state-of-the-art and highly-efficient process platform.

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CBSE AIPMT Papers. This book is designed to give Chapter/Unit wise analysis of all the questions, offering students to have a good grip on the physics, chemistry and Biology. Well detailed answers given for all the questions that are not just catchy but also go deep into the concepts that serve links to other problems. With the view to make students strong footed this book is a sufficient tool for learning and come out with flying colors in Pre-Medical Dental Examinations TABLE OF CONTENT NEET SOLVED PAPER 2020, NEET NATIONAL PAPER 2019, NEET ODISHA 2019, NEET SOLVED PAPER 2018, NEET SOLVED PAPER 2017, NEET SOLVED PAPER 2016 (Phase II), NEET SOLVED PAPER 2016 (Phase I), CBSE

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Sirtuins comprise a family of NAD+-dependent enzymes that have been shown to impact longevity in

a number of eukaryotic organisms. Sir2 (Silent Information Regulator 2) was the first sirtuin protein discovered. The discovery that Sir2 requires NAD+ for its activity suggested a link between Sir2 activity and the phenomenon of caloric restriction in prolonging longevity. This link was strengthened by the observation that lifespan extension by caloric restriction requires Sir2 protein. Under conditions of caloric restriction, NAD+ levels are high, Sir2 is activated, and the rate of aging is decreased. These effects have been replicated in invertebrate organisms, where a close structural and functional homologue of Sir2 was found in C. elegans and Drosophila. The sirtuin-dependent effects on

metabolism and ageing, observed in lower organisms, have ignited intensive investigation of their biological and therapeutic roles in mammals. There are seven known mammalian sirtuins, SIRTs 1-7, the most studied of which is SIRT1, a close structural and functional homologue of yeast Sir2. Enhancement of organismal longevity and other health-promoting effects of mammalian SIRT1 have frequently been attributed to the regulation of metabolism. A recognized molecular link between metabolism and aging stimulated a firestorm of investigations, aiming to combat metabolic and age-dependent human diseases. It has become clear, however, that the sirtuin family of proteins regulates a diverse

repertoire of cellular functions in mammals. Mounting evidence implicating SIRT1 in important clinical indications, such as diabetes, cancer, cardiovascular dysfunction and neurodegenerative disease, suggest that modality as attractive therapeutic target. Subsequently, drug discovery and development, targeting sirtuin activation, has been intensified in the recent years. Despite rapid progress and accumulation of new data, the biological roles of other mammalian sirtuins have been less studied and remain poorly understood. There are several important questions that remain to be addressed. What are the functions of sirtuins in different cell types and tissues? Are all sirtuins involved in the

regulation of metabolism and aging? What is the functional relationship between different sirtuins? What are the mechanisms of regulation of sirtuin activities? What is the role of sirtuins in disease and therapy? This issue aims to address these and other critical questions, relevant to Research Topic on sirtuin biology and therapeutics. To that end the issue solicits expert opinions of sirtuin research on structural biology, biochemistry, cell biology, animal genetics, pharmacology, medicinal chemistry and drug discovery, and on areas of investigation studying human conditions, like diabetes, cancer, cardio-vascular, and neutodegeneration. Of particular interest are the new methods and assays to study

sirtuins in various organisms and developing sirtuin-based therapeutics. Furthermore, we propose to encourage contributors to discuss new concepts and paradigms, and to express their perspectives on the future development of the sirtuin research field. Altogether, we believe this issue provides a unique opportunity for comprehensive and diverse coverage of the topic, and will be of broad interest for the journal's readership.

A fascinating analysis of the main patterns of distribution and evolution of the Australasian biota.