

BIOLOGY PAPER 1

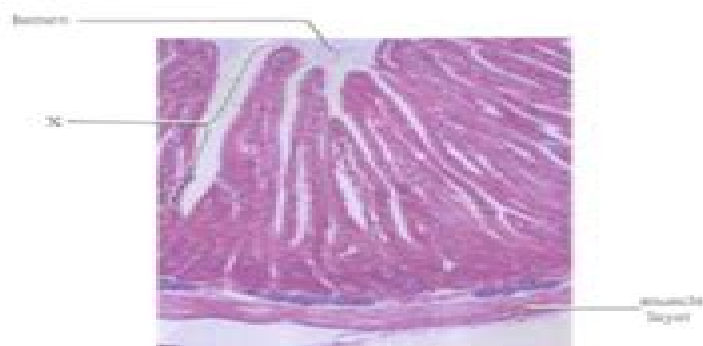
8:30 am – 10:00 am (1½ hours)
This paper must be answered in English

1. Answer **THREE** questions only.
2. Each question consists of three parts.
3. All questions carry equal marks.
4. In each question, 2 additional marks will be awarded for effective communication.
5. The diagrams in this paper are **NOT** necessarily drawn to scale.

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2004-CE-BIO-1-1-1

1. (a) The photomicrograph below shows a cross section of the small intestine of a mammal.



- (i) With reference to two features of 'X' observable from the photomicrograph, explain how these features facilitate the absorption of digested food substances. (4 marks)
- (ii) Use a flowchart to show how amino acids are transported to the heart after entering 'X'. Indicate the major organs and blood vessels along the pathway. (2 marks)
- (iii) Describe how the muscle layer helps the movement and digestion of food inside the small intestine. (3 marks)

1. (b) The diagram below shows a section of a seed.



- (i) Name structure A. (1 mark)
- (ii) What organs will A develop into during seed germination? (2 marks)
- (iii) During germination, amylase activity is detected in region B. Explain the importance of amylase activity to the growth of the seedling. (4 marks)
- (iv) The dry mass of the seedling decreases in the initial stage of germination but starts to increase after one week. Explain the decrease in dry mass of the seedling in the initial stage. (3 marks)

2014 H S Biology Paper1

Robert A. Convissar



2014 H S Biology Paper1:

International Conference on Education and Management Science (ICEMS2014), 2014-09-24 2014 International Conference on Education and Management Science ICEMS2014 will be held in Beijing China on August 19 20 2014 The main purpose of this conference is to provide a common forum for researchers scientists and students from all over the world to present their recent findings ideas developments and application in the border areas of Education and Management Science It will also report progress and development of methodologies technologies planning and implementation tools and standards in information systems Education is an internal topic It is a process of delivering knowledge in a basic meaning Humans are hard to define the actual definition of education But it is the key point for our society to step forward Management science is the discipline that adapts the scientific approach for problem solving to help managers making informed decisions The goal of management science is to recommend the course of action that is expected to yield the best outcome with what is available

Marine Anthropogenic Litter Melanie Bergmann, Lars Gutow, Michael Klages, 2015-06-01 This book describes how man made litter primarily plastic has spread into the remotest parts of the oceans and covers all aspects of this pollution problem from the impacts on wildlife and human health to socio economic and political issues Marine litter is a prime threat to marine wildlife habitats and food webs worldwide The book illustrates how advanced technologies from deep sea research microbiology and mathematic modelling as well as classic beach litter counts by volunteers contributed to the broad awareness of marine litter as a problem of global significance The authors summarise more than five decades of marine litter research which receives growing attention after the recent discovery of great oceanic garbage patches and the ubiquity of microscopic plastic particles in marine organisms and habitats In 16 chapters authors from all over the world have created a universal view on the diverse field of marine litter pollution the biological impacts dedicated research activities and the various national and international legislative efforts to combat this environmental problem They recommend future research directions necessary for a comprehensive understanding of this environmental issue and the development of efficient management strategies This book addresses scientists and it provides a solid knowledge base for policy makers NGOs and the broader public

Bio-orthopaedics Alberto Gobbi, João Espregueira-Mendes, John G. Lane, Mustafa Karahan, 2017-05-26 This book introduces the exciting field of orthobiology which will usher in a new array of therapeutic approaches that stimulate the body's natural resources to regenerate musculoskeletal tissues damaged by trauma or disease The book addresses a range of key topics and discusses emerging approaches that promise to offer effective alternatives to traditional treatments for injuries to bone cartilage muscles ligaments and tendons It explains in detail how a variety of innovative products including biomaterials growth factors and autogenous cells together provide the basis for the regeneration of these musculoskeletal structures and how recent scientific progress has created unique opportunities to address pathological situations that until recently have been treated with unsatisfactory results The authors are experts from across the world

who come together to provide a truly global overview The book is published in collaboration with ISAKOS It will be invaluable for all with an interest in this area of medicine which has already attained huge popularity in Orthopaedics and Sports Medicine and has also attracted the attention of the lay public

Achieving Your Best in High School Charles P. Kost II, 2015-01-16 This collection of self guided lessons includes the essential skills that are needed to be successful in high school and beyond Students who are new to high school or students who are struggling in class as well as students who want to maximize their achievement in school will find these easy to implement strategies effective and practical Each lesson includes easy to adapt techniques that can be integrated into everyday practice The strategies are divided into six units each focusing on different aspects of student achievement From adapting to high school to organization and study skills to setting goals this book will introduce all of the necessary components of being a successful high school student These techniques will be an asset to any student in high school and college and throughout the rest of their careers

The Neuron in Context Vanessa Lux, 2024-09-17 Neuroscience has largely abandoned its localizationist and mechanistic framework of the 20th century The plastic embodied and network character of our nervous system is widely acknowledged and systems theory approaches to consciousness dominate the field However the underlying neuron theory has not changed The neuron doctrine conceptualizing the single neuron as atomistic one directional source of neural function still provides the template for our understanding of these basic elements of our nervous system and the material foundation of consciousness Yet the single neuron does not exist as an isolated unit It is embedded within multiple cellular structural and functional contexts and highly depends on them for its development neural activity and survival The book discusses the constraints of the neuron doctrine and its pragmatic reductionism in the light of the growing knowledge about the brain s connectivity plasticity and systemic and embodied nature To overcome these constraints the author argues for a new neuron theory depicting the neuron as bidirectional hub which is at the same time source and product of neural function This bidirectionality is further characterized by spatial and time dimensions placing the neuron within a multi level pathway model of psychobiological development from the perspective of Developmental Embodiment Research Furthermore the author discusses the potential of neuroepigenetic markers to characterize the neuron and its range of plasticity within this developmental perspective With its focus on neuroepigenetics the book addresses a knowledge gap in the current study of the neural foundations of psychological functions The multi level and bidirectional perspective is already realized in approaches coming from developmental systems theory which model neural function at the connectome level and it also fits with approaches investigating feedback loops underlying neural activity at the single cell level At both these levels the spatial and the time dimensions are well characterized either as changing connectivity patterns across different age groups or as synaptic feedback loops underlying neural activation patterns However for the intermediate level of small neural populations which is currently the main target for studies investigating the neural basis of specific psychological functions this characterization

turned out to be more challenging Multi cell recordings have provided a first glimpse into the complex interaction patterns of these small neural networks but they are limited to the recording period and do not provide information about the long term developmental and activation history Here neuroepigenetic markers could be of use Due to their relative stability and at the same time environmental sensitivity neuroepigenetic markers represent an additional layer of information in which to a certain degree the cell s metabolic and activation history is aggregated over time This information is available at the single neuron level but could also be modeled as aggregated information for small neural populations and the supporting cellular context Looking through this epigenetic lens adds to our understanding of the neuron as bidirectional hub by emphasizing the molecular correlates of functional stabilization and their contextual prerequisites These prerequisites reach from the immediate cellular context to the social cultural contexts which shape the culturally specific modes of acquisition of psychological functions throughout the lifespan Accounting for this multilayered contextuality of the neuron and its function affords to repositions the relationship between neuroscience and psychology in their joint effort to unravel the material basis of consciousness This provides new challenges but also new perspectives for theoretical psychology The book presents these current developments and debates to researchers graduate students and interested professionals and practitioners working in neuroscience epigenetics psychiatry psychology and psychotherapy It also provides a basic introduction into neuroepigenetics its mechanisms and first findings for graduate students as well as interested professionals and practitioners working in psychiatry psychology and psychotherapy

Smart STEM-Driven Computer Science Education Vytautas Štuikys, Renata Burbaitė, 2018-06-28 At the centre of the methodology used in this book is STEM learning variability space that includes STEM pedagogical variability learners social variability technological variability CS content variability and interaction variability To design smart components firstly the STEM learning variability space is defined for each component separately and then model driven approaches are applied The theoretical basis includes feature based modelling and model transformations at the top specification level and heterogeneous meta programming techniques at the implementation level Practice includes multiple case studies oriented for solving the task prototypes taken from the real world by educational robots These case studies illustrate the process of gaining interdisciplinary knowledge pieces identified as S knowledge T knowledge E knowledge M knowledge or integrated STEM knowledge and evaluate smart components from the pedagogical and technological perspectives based on data gathered from one real teaching setting Smart STEM Driven Computer Science Education Theory Methodology and Robot based Practices outlines the overall capabilities of the proposed approach and also points out the drawbacks from the viewpoint of different actors i e researchers designers teachers and learners

Emerging zoonoses: eco-epidemiology, involved mechanisms and public health implications Rubén Bueno-Marí, A. Paulo Gouveia Almeida, Juan Carlos Navarro, 2015-07-06 Zoonoses are currently considered as one of the most important threats for public health worldwide Zoonoses can be defined as any disease or infection that is naturally transmissible from vertebrate or

invertebrate animals to humans and vice versa Approximately 75% of recently emerging infectious diseases affecting humans are diseases of animal origin approximately 60% of all human pathogens are zoonotic All types of potential pathogenic agents including viruses parasites bacteria and fungi can cause these zoonotic infections From the wide range of potential vectors of zoonoses insects are probably those of major significance due to their abundance high plasticity and adaptability to different kinds of pathogens high degrees of synanthropism in several groups and difficulties to apply effective programs of population control Although ticks flies cockroaches bugs and fleas are excellent insects capable to transmit viruses parasites and bacteria undoubtedly mosquitoes are the most important disease vectors Mosquito borne diseases like malaria dengue equine encephalitis West Nile Mayaro or Chikungunya are zoonoses with increasing incidence in last years in tropical and temperate countries Vertebrates can also transmit serious zoonoses highlighting the role of some carnivorous animals in rabies dissemination or the spread of rodent borne diseases in several rural and urban areas Moreover the significance of other food borne zoonoses such as taeniasis trichinellosis or toxoplasmosis may not been underestimated According to WHO FAO and OIE guidelines an emerging zoonotic disease can be defined as a zoonosis that is newly recognized or newly evolved or that has occurred previously but shows an increase of incidence or expansion in geographical host or vector range There are many factors that can provoke or accelerate the emergence of zoonoses such as environmental changes habitat modifications variations of human and animal demography pathogens and vectors anomalous mobilization related with human practices and globalization deterioration of the strategies of vector control or changes in pathogen genetics To reduce public health risks from zoonoses is absolutely necessary to acquire an integrative perspective that includes the study of the complexity of interactions among humans animals and environment in order to be able to fight against these issues of primary interest for human health In any case although zoonoses represent significant public health threats many of them still remain as neglected diseases and consequently are not prioritized by some health international organisms

A Living History of Immunology Kendall Arthur Smith, 2015-11-04 In the highly competitive world of biomedical science often the rush to publish and to be recognized as first with a new discovery concept or method is lost in the hurly burly of the moment as the maddening crowd moves on to the next new thing One of the great things about immunology today is that it has only become mature as a science within the last half century and especially within the past 35 years as a consequence of the revolution of molecular immunology which has taken place only since 1980 Consequently most of those who have contributed to our new understanding of how the immune system functions are still alive and well and still contributing Thus A Living History of Immunology collates many stories from the investigators who actually performed the experiments that have established the frontiers of immunology Accordingly this volume combats revisionist science by those who want to alter history by telling the stories a different way than actually happened In this regard one of the good things about science vs other disciplines is that we have the written record of what was done when it was done and by whom Even so we do not have

the complete story or narrative of how and why experiments were done and what made the differences that led to success This volume captures and chronicles some of these stories from the past fifty years in immunology *Principles and Practice of Laser Dentistry - E-Book* Robert A. Convissar,2022-09-07 Successfully expand the use of lasers in your dental practice With vibrant detailed clinical images and easy to follow writing Principles and Practice of Laser Dentistry 3rd Edition walks you through the most common uses of lasers in areas such as periodontal surgery dental implants prosthetic and cosmetic reconstruction and describes how lasers work how they interact with tissues and how this knowledge may be applied to dental practice with a focus on technology surgical techniques and key steps in treatment Written by laser dentistry pioneer Dr Robert A Convissar and a team of leading experts this edition includes an ebook free with each purchase of a print book three new chapters and new case histories and clinical tips It contains everything you need to know to build your skills in the rapidly growing field of laser dentistry Authoritative information is written by experts from all areas of dentistry including periodontics orthodontics prosthodontics oral and maxillofacial surgery implants endodontics pediatric dentistry cosmetic dentistry and practice management Revised case studies reflect treatment planning and the use of lasers in treating a variety of pathologies Detailed photographs clearly illustrate preoperative intraoperative and postoperative procedures Guidelines to the use of lasers in procedures are validated with evidence based peer reviewed literature Revised Clinical Tips and Caution boxes highlight key information Summary tables and boxes simplify essential information Chapter on Introducing Lasers into the Dental Practice includes guidelines for investing in lasers Glossary provides definitions of key laser terminology NEW Chapters cover snoring and sleep apnea photodynamic therapy and infant tongue tie procedures NEW More clinical photos equipment photos and conceptual illustrations are included NEW eBook version is included with print purchase allowing you to access all the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud

Molecular Biology of B Cells Tasuku Honjo,Michael Reth,Andreas Radbruch,Frederick Alt,Alberto Martin,2024-01-11 Molecular Biology of B Cells Third Edition is a comprehensive reference to how B cells are generated selected activated and engaged in antibody production These developmental and stimulatory processes are described in molecular immunological and genetic terms to give a clear understanding of complex phenotypes Molecular Biology of B Cells Third Edition offers an integrated view of all aspects of B cells to produce a normal immune response as a constant and the molecular basis of numerous diseases due to B cell abnormality The new edition continues its success with updated research on B cell development and function the use of therapeutic antibodies in cancer and infectious disease therapeutic targeting of B cells for clinical application new developments in lymphoma biology With updated research and continued comprehensive coverage of all aspects of B cell biology Molecular Biology of B Cells Third Edition is the definitive resource vital for researchers across molecular biology immunology and genetics Provides new research on normal versus abnormal B cell development and function Contains studies on therapeutic antibodies in cancer and infectious diseases

Covers research on therapeutically targeting B cells in inflammation or autoimmune diseases *Current Challenges in Modeling Cellular Metabolism* Daniel Machado,Kai H. Zhuang,Nikolaus Sonnenschein,Markus J. Herrgård,2016-01-21 Mathematical and computational models play an essential role in understanding the cellular metabolism They are used as platforms to integrate current knowledge on a biological system and to systematically test and predict the effect of manipulations to such systems The recent advances in genome sequencing techniques have facilitated the reconstruction of genome scale metabolic networks for a wide variety of organisms from microbes to human cells These models have been successfully used in multiple biotechnological applications Despite these advancements modeling cellular metabolism still presents many challenges The aim of this Research Topic is not only to expose and consolidate the state of the art in metabolic modeling approaches but also to push this frontier beyond the current edge through the introduction of innovative solutions The articles presented in this e book address some of the main challenges in the field including the integration of different modeling formalisms the integration of heterogeneous data sources into metabolic models explicit representation of other biological processes during phenotype simulation and standardization efforts in the representation of metabolic models and simulation results *The Oxford Handbook of Mesolithic Europe* ,2025-01-13 Research into the Mesolithic has recently undergone important transformations making it one of the most dynamic fields of archaeological research today These changes are the result of a combination of factors new and exciting discoveries the impact of innovative scientific methods and the introduction of fresh interpretative approaches Situated within a long period defined by significant environmental demographic and social change the European Mesolithic period provides key insights to answer the big questions in archaeology including the deep history of migration diversity and adaptation It also provides resources for elucidating answers to complex questions about human relationships diet economy and identity New theoretical approaches to the Mesolithic in Europe have expanded research into new areas such as lived experience ritual cosmology art identity the body and human animal relationships These new research questions have added important nuance and provided a more complete understanding of the period With contributions from leading scholars in the field and from across the continent The Oxford Handbook of Mesolithic Europe provides the first comprehensive overview of the rich archaeology of Mesolithic Europe Chapters on different European regions as well as neighboring areas in North Africa and the Middle East provide a synoptic view with thematic chapters examining the lived experience of different kinds of landscapes and adaptations different forms of technology and aspects of Mesolithic life death ritual cosmology and art The volume highlights both the significance of interdisciplinary research for the field and the importance of combining perspectives and approaches when studying the deep past *Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles* Robert Cassidy,Elizabeth S. Charles,James D. Slotta,Nathaniel Lasry,2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based pedagogies in higher

education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in between straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation

Learning and Memory: A Comprehensive Reference ,2017-07-07 Learning and Memory A Comprehensive Reference Second Edition Four Volume Set is the authoritative resource for scientists and students interested in all facets of learning and memory This updated edition includes chapters that reflect the state of the art of research in this area Coverage of sleep and memory has been significantly expanded while neuromodulators in memory processing neurogenesis and epigenetics are also covered in greater detail New chapters have been included to reflect the massive increase in research into working memory and the educational relevance of memory research No other reference work covers so wide a territory and in so much depth Provides the most comprehensive and authoritative resource available on the study of learning and memory and its mechanisms Incorporates the expertise of over 150 outstanding investigators in the field providing a one stop resource of reputable information from world leading scholars with easy cross referencing of related articles to promote understanding and further research Includes further reading for each chapter that helps readers continue their research Includes a glossary of key terms that is helpful for users who are unfamiliar with neuroscience terminology

Synthetic Biology engineering complexity and refactoring cell capabilities Pablo Carbonell,Jean Marie François,2015-10-26 One of the key features of biological systems is complexity where the behavior of high level structures is more than the sum of the direct interactions between single components Synthetic Biologists aim to use rational design to build new systems that do not already exist in nature and that exhibit useful biological functions with different levels of

complexity One such case is metabolic engineering where with the advent of genetic and protein engineering by supplying cells with chemically synthesized non natural amino acids and sugars as new building blocks it is now becoming feasible to introduce novel physical and chemical functions and properties into biological entities The rules of how complex behaviors arise however are not yet well understood For instance instead of considering cells as inert chassis in which synthetic devices could be easily operated to impart new functions the presence of these systems may impact cell physiology with reported effects on transcription translation metabolic fitness and optimal resource allocation The result of these changes in the chassis may be failure of the synthetic device unexpected or reduced device behavior or perhaps a more permissive environment in which the synthetic device is allowed to function While new efforts have already been made to increase standardization and characterization of biological components in order to have well known parts as building blocks for the construction of more complex devices also new strategies are emerging to better understand the biological dynamics underlying the phenomena we observe For example it has been shown that the features of single biological components i e promoter strength ribosome binding affinity etc change depending on the context where the sequences are allocated Thus new technical approaches have been adopted to preserve single components activity as genomic insulation or the utilization of prediction algorithms able to take biological context into account There have been noteworthy advances for synthetic biology in clinical technologies biofuel production and pharmaceuticals production also metabolic engineering combined with microbial selection adaptation and fermentation processes allowed to make remarkable progress towards bio products formation such as bioethanol succinate malate and more interestingly heterologous products or even non natural metabolites However despite the many progresses it is still clear that ad hoc trial and error predominates over purely bottom up rational design approaches in the synthetic biology community In this scenario modelling approaches are often used as a descriptive tool rather than for the prediction of complex behaviors The initial confidence on a pure reductionist approach to the biological world has left space to a new and deeper investigation of the complexity of biological processes to gain new insights and broaden the categories of synthetic biology In this Research Topic we host contributions that explore and address two areas of Synthetic Biology at the intersection between rational design and natural complexity 1 the impact of synthetic devices on the host cell or chassis and 2 the impact of context on the synthetic devices Particular attention will be given to the application of these principles to the rewiring of cell metabolism in a bottom up fashion to produce non natural metabolites or chemicals that should eventually serve as a substitute for petrol derived chemicals and on a long term view to provide economical ecological and ethical solutions to today s energetic and societal challenges

The Function of Secretory Factors in Immune Disorders Yanbo Wang,Tao Liu,Yujing Zhang,Benjamin Tsang,2023-09-07 **Analytical Chemistry Editor's Pick 2021** Huangxian Ju,2021-05-19 *Reactive Oxygen Species in Cardiometabolic Syndrome, Neuronal Diseases and Cancer* Esma Isenovic,Jasjit S. Suri,2025-07-01 *Reactive Oxygen Species in Cardiometabolic*

Syndrome Neuronal Diseases and Cancer From Bench to its Potential Therapeutics systematically summarizes findings concerning the biochemical properties of various reactive oxygen species ROS The book opens with foundational coverage of ROS ROS signaling as well as the role of ROS in controlling gene expression Subsequent chapters cover molecular mechanisms of ROS regulation of gene expression and antioxidant supplementation with cardiometabolic syndrome various neuronal diseases and cancer It concludes with recent findings on therapeutic modulations of intracellular levels of ROS which may significantly impact the development of novel agents for treating the conditions covered This is a must have reference for scientists and medical professionals seeking to enhance their knowledge of ROS research and the impact on treatments for cardiometabolic syndrome neuronal diseases and cancer Provides a foundation on reactive oxygen species ROS ROS signaling and regulation of gene expression Presents an overview of the molecular mechanisms of ROS in reactive oxygen species in cardiometabolic syndrome specific neural diseases and cancer Reviews recent findings on ROS and regulation of gene expression Covers the effects of antioxidant supplementation

Nanomedicine for Deep-Tissue High-Resolution Bio-Imaging and Non-Invasive Therapy Michael Ming-Yuan Wei, Yanbo Pei, Yu Gao, 2020-11-12 Dr Ming Yuan Wei currently holds a pending U S Patent Application entitled Systems and Methods for High Resolution Imaging All other Guest Editors have no other competing interests to declare with regards to the Topic subject

Enzymes in Food and Beverage Processing Muthusamy Chandrasekaran, 2015-10-23 Biotechnology particularly eco friendly enzyme technologies has immense potential for the augmentation of diverse food products utilizing vast biodiversity resolving environmental problems owing to waste disposal from food and beverage industries In addition to introducing the basic concepts and fundamental principles of enzymes Enzymes in Food and Beverage Processing covers development of novel enzymes with desired properties and functions for use in food industries and use of enzymes as analytical tools for monitoring in food and beverage processing It also details the application of enzymes in different food and beverage industries recent advances in enzymology functional foods probiotics and food additives The book examines the scope emerging enzyme technologies and applications of enzymes in processing of various foods and beverages and in developing novel food products It covers emerging enzyme technologies and enzyme engineering techniques for improved and enhanced performance of enzymes in food and beverage processing The book discusses the scope for deriving new range of food products such as functional foods nutraceuticals and probiotics using enzymes as well as the scope for application of enzyme inhibitors and enzyme mediated biotransformation s for improved enzyme processing of food and beverages In the context of growing environmental problems and need for sustainable use of available natural resources there is an increased need to implement valorization strategy in food and beverage processing industries which generates voluminous byproducts and wastes Hence the book also examines the use of enzymes in valorization of food processing wastes besides the research gaps and future trends in the field that promote applications of enzymes It examines the use of enzymes in food and beverage processing from the various

food industries point of view and enables a deep understanding of the latest developments in modern food technologies and biotechnologies that you can use to meet ever increasing consumer demands

Decoding **2014 H S Biology Paper1**: Revealing the Captivating Potential of Verbal Expression

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