

6. Which of the following structures may be used to distinguish between a plant cell and an animal cell?

(A) Vacuoles  
 (B) Cell walls  
 (C) Mitochondria  
 (D) Cell membranes

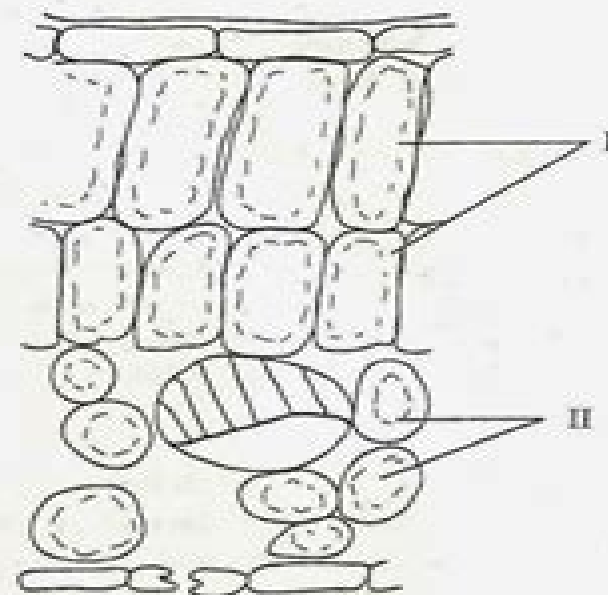
7. Which of the following pairs of function and organelle is NOT correctly matched?

Function	Organelle
(A) Osmotic control	Membrane
(B) Polypeptide chain synthesis	Chloroplast
(C) Hereditary materials	Nucleus
(D) Release of energy	Mitochondrion

When a seedling loses water to the atmosphere faster than it can be obtained from the soil, the turgidity of the cells

- (A) increases and the seedling wilts  
 (B) decreases and the seedling wilts  
 (C) increases and the seedling does not wilt  
 (D) decreases and the seedling does not wilt

Item 9 refers to the diagram below which shows the cross section through a dicotyledonous leaf.



9. Which of the following is NOT true of the cells labelled I and II in the diagram above?

- (A) I makes most of the food.  
 (B) I has a relatively larger surface area.  
 (C) II receives less energy from the sun.  
 (D) II possesses more chloroplasts than I.

10. Bile empties into the

- (A) duodenum  
 (B) caecum  
 (C) ileum  
 (D) stomach

# Biology Hl Paper 1 May 2011

**Lingsheng Yao**



## **Biology HI Paper 1 May 2011:**

**Mesenchymal Stromal Cells** Peiman Hematti, Armand Keating, 2013-01-16 Mesenchymal Stromal Cell MSC biology has been studied for more than 4 decades and the cells have been investigated for potential clinical applications for more than 15 years. Progress has become exponential over the past decade due mainly to the broad therapeutic potential of these cells. However, MSC studies have also been subject to controversy and increasing scrutiny as new mechanisms of action are reported and ever-expanding therapeutic applications pursued. In this book, leading authorities from all over the world who are actively involved in this field provide state-of-the-art knowledge of the basic biology, translational requirements, and latest clinical experience with MSCs. This cutting-edge book is the ideal resource for scientists and clinicians interested in pursuing an important and rapidly developing field of research that will eventually help patients and address urgent unmet medical needs. Features include: Coverage of the biology of MSCs; latest understanding of mechanisms of action and role in tissue homeostasis and regeneration; Identifying the potential of MSCs in proceeding from bench to bedside; from regulatory GMP production; ethical and safety aspects; Critical analysis of clinical studies and the potential of MSCs to treat a wide variety of human diseases and tissues.

**Anthropology and Cryptozoology** Samantha Hurn, 2016-11-03 Cryptozoology is best understood as the study of animals which in the eyes of Western science are extinct, unclassified, or unrecognised. In consequence and in part because of its selective methods and lack of epistemological rigour, cryptozoology is often dismissed as a pseudo-science. However, there is a growing recognition that social science can benefit from engaging with it, for as social scientists are very well aware, scientific categorisation and explanation represents just one of a myriad of systems used by humans to enable them to classify and make sense of the world around them. In many cultural contexts, myth, folk classification, and lived experience challenge the truth expounded by scientists. With a reflexive anthropological approach and drawing on rich empirical and ethnographic studies from around the world, this volume engages with the theoretical and methodological issues raised by reported sightings of unrecognised animals. Bringing into sharp focus the anthropological value and challenges for methodology posed by beliefs about unclassified creatures, *Anthropology and Cryptozoology* explores encounters with mysterious creatures. It will be of interest to anthropologists, sociologists, and geographers working in the fields of research methods, anthrozoology, mythology, and folklore, and human-animal interaction.

***Pseudomonas aeruginosa, Biology, Genetics, and Host-pathogen Interactions*** Dara W. Frank, 2012-02-02 The opportunistic pathogen *Pseudomonas aeruginosa* offers a rich variety of biologically relevant topics to explore and serves as a model system to understand the interactions of Gram-negative bacteria with human hosts. The organism adapts readily to most environments. It has a large and variable genome with a great deal of metabolic potential. *P. aeruginosa* encodes a variety of regulatory systems to fine-tune gene expression and integrate environmental signals. This organism can infect both plants and animals and produces a plethora of enzymes and factors that can overcome host defenses. Moreover, it has the ability to change

between the states of a sedentary colonizer to an invasive and highly motile organism Clinically the bacterium is resistant to many antibiotics making it difficult to treat and impossible to eradicate from the lungs of patients with cystic fibrosis Intrinsic antibiotic resistance combined with an armamentarium of tissue degradative enzymes makes it imperative to possess a comprehensive understanding of the biology genetics and pathogenesis of this organism so that novel therapeutics based on virulence product neutralization can be designed and implemented This Research Topics issue will be devoted to updating the current understanding of *P. aeruginosa* systems as they relate to its different lifestyles in different environments The underlying theme is to provide broad overviews and to integrate protein structure function and gene regulation as it relates to the biology of this bacterium

*Legal Methods of Mainstreaming Climate Change Adaptation in Chinese Water Management* Xiangbai He, 2016-01-29 This book addresses why whether and how the existing legal framework on water management in China could make climate change adaptation a mainstream issue The book uses a table to illustrate the distinctions and similarities between IWRM and water centered adaptation to analyze the possibilities of mainstreaming adaptation The new water planning processes and EIA are also illustrated in the form of figures showing the differences after factoring in adaptation considerations Interviews with water managers to obtain their perception and attitudes towards climate change adaptation offer new perspectives for readers The adaptation mainstreaming approach which finds a way to balance various interests and tasks will arouse the interests of those readers who argue that climate change is only one of the issues challenging water management and that poverty reduction environmental protection and living standard improvement are even more important Readers will also be interested to discover that the adaptation mainstreaming approach could be applied in water management institutions such as water planning and EIA In addition the book offers a clear explanation of the challenges of adaptation to the existing water related legal framework from a theoretical perspective and provides theoretical and practical recommendations

*Fishery Bulletin* ,2012 *Forest Science* ,2011 *The Routledge Handbook of Philosophy of the Social Mind* Julian Kiverstein, 2016-11-18 The idea that humans are by nature social and political animals can be traced back to Aristotle More recently it has also generated great interest and controversy in related disciplines such as anthropology biology psychology neuroscience and even economics What is it about humans that enabled them to construct a social reality of unrivalled complexity Is there something distinctive about the human mind that explains how social lives are organised around conventions norms and institutions The Routledge Handbook of Philosophy of the Social Mind is an outstanding reference source to the key topics and debates in this exciting subject and is the first collection of its kind An international team of contributors present perspectives from diverse areas of research in philosophy drawing on comparative and developmental psychology evolutionary anthropology cognitive neuroscience and behavioural economics The thirty two original chapters are divided into five parts The evolution of the social mind including the social intelligence hypothesis co evolution of culture and cognition ethnic cognition and cooperation Developmental and

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