

TOPIC 1: CELL BIOLOGY

1.1. Introduction to cells

Cell theory:

- All living things are composed of cells
- The cell is the smallest unit of life
- Cells only arise from pre-existing cells

Atypical examples

- **Striated muscle** → (challenge: one nucleus) long and multi-nucleated
- **Fungal hyphae** → (challenge: single unit) very large, multi-nucleated, continuous cytoplasm
- **Chlamydomonas** → (challenge: simple and small) gigantic, complex form

Functions of life (MR TIGRIN)

1. **Metabolism** – all the chemical reactions in the cell which are responsible for all the actions of organisms (e.g. respiration)
2. **Response** – living things can respond to changes in the environmental conditions
3. **Homeostasis** – the maintenance and regulation of internal cell conditions (e.g. water and pH)
4. **Growth** – living things can grow or change in size/shape
5. **Reproduction** – living things reproduce offspring
 - **Sexual reproduction** (two parents)
 - **Asexual reproduction** (one parent)
6. **Excretion** – the removal of metabolic waste
7. **Nutrition** – feeding by either the synthesis of organic molecules (e.g. photosynthesis) or the absorption of organic matter

Surface Area : Volume

Plasma membrane is responsible for import/export in the cell.

SMALLER THE CELL:

- Better to **lose heat** so that enzymes do not denature
- Greater SA:Vol ratio for diffusion → **cell more efficient**
- Diffusion pathway is shorter → cell more efficient

GREATER THE CELL:

- Decreased SA:Vol ratio → cell conserve better heat

Example 1: Intestine folded covered of villi and microvilli → create larger SA:Vol → greater rate of absorption

Example 2: Lungs made of alveoli → create larger SA:Vol

Magnification Formula



$$1\text{mm} = 1000\mu\text{m (micrometres)}$$

$$1\text{mm} = 1.000.000\text{nm (nanometres)}$$

Sl Ib Biology 2paper 1

**Karen Hokanson, Detlef
Bartsch, Andrew F. Roberts, Monica
Garcia-Alonso, Joerg Romeis ,Aparna
Islam**

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Biology for the IB Diploma Exam Preparation Guide Brenda Walpole, 2015-06-25 Biology for the IB Diploma Second edition covers in full the requirements of the IB syllabus for Biology for first examination in 2016 Survive the IB! Nathan Taber, 2011 *Introducing the IB Diploma Programme* Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to

introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools

IB World Schools Yearbook 2012 ,2012 Microbiology of Wounds Steven Percival, Keith Cutting, 2010-04-26 It is not the presence of microorganisms but their interaction with patients that determines their influence on wound healing Documenting this critical but often ignored aspect of the treatment process Microbiology of Wounds discusses the microbiology and biology of human wounds in relation to infection and non healing Gain the Necessary Scient **Oswaal**

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1968: Space nuclear systems; raw materials; biology and medicine; isotopes development; special nuclear materials; training, education, and information; program direction and administration; community; Plowshare; security; weapons; and general, February 28, March 2 and 3, 1967 United States. Congress. Joint Committee on Atomic Energy, 1967 **Dictionary Catalog**

of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries, 1979 *Druggists' Circular* ,1913 American Druggists' Circular and Chemical Gazette ,1918 **Advancing**

Science in Support of Sustainable Bio-Innovation: 16th ISBR Symposium Karen Hokanson, Detlef Bartsch, Andrew F. Roberts, Monica Garcia-Alonso, Joerg Romeis ,Aparna Islam, 2025-05-23 The International Society for Biosafety Research ISBR organizes a bi annual symposium that aims to promote scientifically sound research regulation and communication in support of sustainable bio innovation ISBR symposiums represent premier scientific conferences that bring together scientists from academic government and private sectors working on research and regulation aimed to provide innovative sustainable and advanced biotechnology solutions The 16th ISBR symposium will take place from April 30 May 4 2023 in St Louis MO USA and explores the theme of advancing science in support of sustainable bio innovation The meeting will integrate bio innovation research and development regulation policy and social engagement topics in support of sustainability This Research Topic provides a forum for publications resulting from presentations given at the symposium The Research Topic will feature articles that share knowledge discuss challenges and explore opportunities on topics related to biotechnology and biosafety such as cutting edge technology development and biosafety research risk analysis regulation policy and

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individually target specific molecules within cancer cells more than 300 such agents are currently in phase I or II clinical trials This is an exciting time for cancer specialists and patients alike However if we have learned anything from the past 50 or more years of research into cancer it is that Lord Beaverbrook in founding the British national health service in the 1950s was frighteningly prescient when he defined the primary goal of health care to be Diagnosis Diagnosis Diag sis Now more than ever it is essential that appropriate diagnostic methods and approaches are applied to the selection of patients for treatment

Principles of Virology, Volume 2 S. Jane Flint, Vincent R. Racaniello, Glenn F. Rall, Theodora Hatzioannou, Anna Marie Skalka, 2020-11-03 Principles of Virology the leading virology textbook in use is an extremely valuable and highly informative presentation of virology at the interface of modern cell biology and immunology This text utilizes a uniquely rational approach by highlighting common principles and processes across all viruses Using a set of representative viruses to illustrate the breadth of viral complexity students are able to understand viral reproduction and pathogenesis and are equipped with the necessary tools for future encounters with new or understudied viruses This fifth edition was updated to keep pace with the ever changing field of virology In addition to the beloved full color illustrations video interviews with leading scientists movies and links to exciting blogposts on relevant topics this edition includes study questions and active learning puzzles in each chapter as well as short descriptions regarding the key messages of references of special interest

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