

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
- **Glaciar cells** → (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



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

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

Ib Biology Sl Paper May 2013

**Pankaj Panwar, Gopal
Shukla, Jahangeer A. Bhat, Sumit
Chakravarty**



Ib Biology Sl Paper May 2013:

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 **Backpacker**, 2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured *Iguazu Falls* Marcelo José da Silva de Magalhães, 2021-01-01 Dear reader I am sure that the Iguazu National Park is among the tourist places where the natural beauty most enchanted me Even after visiting it for the second time the excitement is still the same This majestic park is the most visited in Argentina and is among the three most visited tourist spots in Brazil It is among the most well classified tourist sites as World Heritage Site Just visit it to understand these numbers Its beauty may not be described through words or photos It is necessary to be there and feel to live the essence of that place Iguazu River is huge noisy and is characterized by numerous waterfalls which are simply fantastic In the second half of the book will be presenting to you the bird park that is located in Brazil near the Iguassu National Park The bird park is a must see tourist spot for nature lovers I hope this book can give you an idea of the magic of that place I hope you can one day visit and share the same opinion Principles of Virology Jane Flint, Vincent R. Racaniello, Glenn F. Rall, Theodora Hatzioannou, Anna Marie Skalka, 2020-08-07 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 Volume I Molecular Biology focuses on the molecular processes of viral reproduction from entry through release Volume II Pathogenesis and Control addresses the interplay between viruses and their host organisms on both the micro and macroscale including chapters on public health the immune response vaccines and other antiviral strategies viral evolution and a brand new chapter on the therapeutic uses of viruses These two volumes can be used for separate courses or together in a single course Each includes a unique appendix

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Role of Lipids in Virus Assembly Jamil S. Saad, Delphine M. Muriaux, 2015-07-28 RNA enveloped viruses comprise several families belonging to plus and minus strand RNA viruses such as retroviruses flavoviruses and orthomyxoviruses. Viruses utilize cellular lipids during critical steps of replication like entry assembly and egress. Growing evidence indicates important roles for lipids and lipid nanodomains in virus assembly. This special topic covers key aspects of virus membrane interactions during assembly and egress especially those of retroviruses and Ebola virus EBOV. Virus assembly and release involve specific and nonspecific interactions between viral proteins and membrane compartments. Retroviral Gag proteins assemble predominantly on the PM. Despite the great progress in identifying the factors that modulate retroviral Gag assembly on the PM, there are still gaps in our understanding of precise mechanisms of Gag membrane interactions. Studies over the last two decades have focused on the mechanisms by which other retroviral Gag proteins interact with membranes during assembly. These include human immunodeficiency virus HIV, Rous sarcoma virus RSV, equine infectious anemia virus EIAV, Mason-Pfizer monkey virus MPMV, murine leukemia virus MLV, and human T-lymphotropic virus type HTLV-1. Additionally, assembly of filoviruses such as EBOV also occurs on the inner leaflet of the PM. The articles published under this special topic highlight the latest understanding of the role of membrane lipids during virus assembly, egress, and release.

Land Degradation Neutrality: Achieving SDG 15 by Forest Management Pankaj

Panwar, Gopal Shukla, Jahangeer A. Bhat, Sumit Chakravarty, 2022-10-18 This edited book covers all aspects of forest deforestation and degradation in detail and their link to land degradation. Poor natural resource management is often a contributory factor in the depletion of resources, particularly like degradation of land which hinders the goals to achieve land degradation neutrality (LDN). Sustainable Development Goal (SDG) target 15.3 states: "By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought, and floods, and strive to achieve a land degradation neutral world." To achieve the set goals, a comprehensive multidirectional approach is required involving policymakers, field functionaries, researchers, and above all, educators. The book compiles the field experiences and wisdom of some of the best researchers and authors working in the field of land degradations for quite a long time. The objective of the book is to disseminate the status of land degradation, the importance of achieving land degradation neutrality, and share success stories of reclaiming land. Land degradation and suggests means and ways of achieving land degradation neutrality. This book acts as a repository of knowledge on Land degradation neutrality for students, researchers, and practitioners and policy planners.

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