

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
- **Glacis algae** → (challenge: simple and small) gigantic, complex form

Functions of life (MR H GREEN)

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 1 May 2013

**Kai G. Kahl, Marlies Elizabeth
Alvarenga, Don Byrne**



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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

Principles of Virology, Volume 2 S. Jane Flint, Vincent R. Racaniello, Glenn F. Rall, Theodora Hatzioannou, Anna Marie Skalka, 2020-08-03 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 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 glossary and links to internet resources Principles of Virology Fifth Edition is ideal for teaching the strategies by which all viruses reproduce spread within a host and are maintained within populations This edition carefully reflects the results of extensive vetting and feedback received from course instructors and students making this renowned textbook even more appropriate for undergraduate and graduate courses in virology microbiology and infectious diseases

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

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 glossary and links to internet resources Principles of Virology Fifth Edition is ideal for teaching the strategies by which all viruses reproduce spread within a host and are maintained within populations This edition carefully reflects the results of extensive vetting and feedback received from course instructors and students making this renowned textbook even more appropriate for undergraduate and graduate courses in virology microbiology and infectious diseases

Ehrlich's Geomicrobiology

Henry Lutz Ehrlich,Dianne K. Newman,Andreas Kappler,2015-10-15 Advances in geomicrobiology have progressed at an accelerated pace in recent years Ehrlich s Geomicrobiology Sixth Edition surveys various aspects of the field including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels Unlike the fifth edition the sixth includes many expert contributors

Ebook: The Science of Psychology: An Appreciative View King,2016-09-16

Ebook The Science of Psychology An Appreciative View 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

Ebook: Child Development:

An Introduction John Santrock,2014-10-16 Accurate Reliable Engaging These are just a few of the words used by adopters and reviewers of John Santrock s Child Development The new topically organised fourteenth edition continues with Santrock s highly contemporary tone and focus featuring over 1 000 new citations The popular Connections theme shows students the different aspects of children s development to help them better understand the concepts Used by hundreds of thousands of

students over thirteen editions Santrock's proven learning goals system provides a clear roadmap to course mastery

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 indicate 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 M PMV 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 [The Handbook of Microbial Bioresources](#) Vijai Kumar Gupta, Gauri Dutt Sharma, Maria G Tuohy, Rajeeva Gaur, 2016-06-27 Microbial technology plays an integral role in the biotechnology bioengineering biomedicine biopharmaceuticals and agriculture sector This book provides a detailed compendium of the methods biotechnological routes and processes used to investigate different aspects of microbial resources and applications It covers the fundamental and applied aspects of microorganisms in the health industry agriculture and environmental sectors reviewing subjects as varied and topical as pest control health and industrial developments and animal feed

Psychocardiology: Exploring the Brain-Heart Interface Kai G. Kahl, Marlies Elizabeth Alvarenga, Don Byrne, 2022-09-23

Perinatal Stem Cells Anthony Atala, Kyle J. Cetrulo, Rouzbeh R. Taghizadeh, Curtis L Cetrulo, Sean Murphy, 2018-06-14 Perinatal Stem Cells provides researchers and clinicians with a comprehensive description of the current clinical and pre clinical applications of stem cells derived from perinatal sources such as amniotic fluid placenta and placental membranes the umbilical cord and Wharton's jelly It's compiled by leading experts in the field offering readers detailed insights into sources of perinatal stem cells and their potential for disease treatment Therapeutic applications of perinatal stem cells include the treatment of in utero and pregnancy related diseases cardiac disease liver disease pulmonary disease inflammatory diseases for hematopoietic regeneration and for neural protection after stroke or traumatic brain injury In addition the rapid advance in clinical translation and commercialization of perinatal stem cell therapies is highlighted in a section on Clinical and Industry Perspective which provides insight into the new opportunities and challenges involved in this novel and exciting industry Explores current clinical and pre clinical application of stem cells

derived from perinatal sources Offers detailed insight into sources of perinatal stem cells and their potential for disease treatment Discusses progress in the manufacturing banking and clinical translation of perinatal stem cells Edited by a world renowned team to present a complete story of the development and promise of perinatal stem cells

Osteoarticular-immunological Interplay in Response to Disease and Therapy Lisa Deloch,Michal Tomcik,Maria Filkova,2022-11-15 Dr Tomcik receives research funding from Arxx Therapeutics The other Topic Editors declare no competing interests *Recent Progress in Bunyavirus Research* Jane Tao,Pierre-Yves Lozach,2018-07-10 This book is a printed edition of the Special Issue Recent Progress in Bunyavirus Research that was published in *Viruses* **Assessment Approaches to Support Bycatch Management for Marine Mammals** Tessa Francis,Jeff Moore,Andre Eric Punt,Randall Reeves,2022-06-21 *Index Medicus* ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Nelson. Tratado de pediatría Robert M. Kliegman,Joseph W. St. Geme III,2025-07-15 Presenta un formato práctico con concisos capítulos y subcapítulos que permiten encontrar rápidamente la información que se necesita Incluye más de 60 capítulos nuevos que tratan temas como la relación entre los factores sociales y la salud infantil el impacto de los descubrimientos genéticos en la comprensión del diagnóstico y el tratamiento de las enfermedades infantiles enfoques diagnósticos y terapéuticos actualizados basados en la evidencia etc Ofrece información nueva y ampliada sobre terapia génica interferonopatías erupción mucocutánea infecciosa reactiva lesión pulmonar asociada al uso de cigarrillos electrónicos o productos de vapeo viruela símica mpox síndrome de enterocolitis inducida por proteínas alimentarias trastornos de las vías de señalización ciliopatías enfermedad inflamatoria intestinal de aparición muy temprana trastornos de susceptibilidad al virus de Epstein Barr exposición al humo de la marihuana etc Contiene cientos de nuevas figuras y tablas para facilitar la comprensión visual y la agilidad en la consulta Versión ebook del libro incluida con la compra El ebook permite acceder a todo el texto figuras y referencias así como hacer búsquedas anotaciones y resaltados y reproducir el contenido en audio también incluye videos contenidos íntegramente en inglés La nueva edición de Nelson Tratado de pediatría aborda todos los aspectos de la práctica pediátrica general así como información detallada para los diversos subespecialistas pediátricos Sus contenidos están exhaustivamente actualizados e incluyen desde los más recientes protocolos de diagnóstico y tratamiento hasta la amplia gama de problemas biológicos psicológicos y sociales a los que se enfrenta hoy en día la población pediátrica sin olvidar el uso de las más novedosas tecnologías Editada por destacados expertos de la comunidad médica pediátrica esta obra de referencia en dos volúmenes abarca tanto la ciencia como el arte de la práctica pediátrica Sigue siendo la obra de referencia preferida entre pediatras residentes de pediatría y otros profesionales implicados en el cuidado de pacientes en edad infantil ya que ofrece toda la información necesaria en un formato conciso y fácil de usar tanto para el estudio como para la consulta diaria Biology SL Guy Décarie,Jonathan Knopp,David Mindorff,2011-01

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