TOPIC 1: CELL BIOLOGY

1.1. Introduction to cells

Cell theory:

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

Atypical enamples

- String muscle -> (chaffenge: one suctions) long and multi-nucleated
- Firmed hyptos: → (challenge: single unit) very large, multi-nucleated, continuous cytoplasm
- Chart alms -> (challenge; simple and small) gigantic, complex form

Functions of life (MR H GREN)

- Mutabilities all the chemical reactions in the cell which are responsible for all the actions of organisms (e.g. respiration)
- 2. Handana living things can respond to changes in the environmental conditions.
- 3. Homortonic the maintenance and regulation of internal cell conditions (e.g., water and pHt)
- 4. (limit) living things can grow or change in size/shape.
- 5. Harroduction living things reproduce offspring
 - Sexual reproduction (two parents)
 - Ascrust reproduction (one perent)
- 6. _____ the removal of metabolic waste
- Number feeding by either the synthesis of organic molecules (e.g. photosynthesis) or the absorption
 of organic matter

Surface Area : Volume

Planta incribranc is missonsible for import/export in the cell.

SMALLER THE CELL:

- Hetter to lose heat so that ensymes do not denature
- Greater SA: Vol ratio for diffusion -> mill more officient
- Diffusion pathway is shorter -> cell more efficient

GREATER THE CHLL:

- Decreased SA: Vol ratio -> cell conserve better heat.
- Example 1; Intentine folded covered of villi and microvilli → create larger SA:Vel → greater rate of absorption Example 2; Lungs made of alveoli → create larger SA:Vel

Magnification Formula



Imm = 1000µm (micrometres)
Imm = 1,000,000nm (nanometres)

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Lars Kaestner, Anna Bogdanova

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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 Virology, Volume 2 S. Jane Flint, Vincent R. Racaniello, Glenn F. Rall, Theodora Hatziioannou, 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 under stand 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 Biostimulants in Agriculture II: Towards a Sustainable Future Maurizio Ruzzi, Giuseppe Colla , Youssef Rouphael, 2024-06-11 Modern agriculture needs to review and broaden its practices and business models by integrating opportunities coming from different adjacent sectors and value chains including the bio based industry in a fully circular economy strategy Searching for new tools and technologies to increase crop productivity under optimal and sub optimal conditions and to improve resources use efficiency is crucial to ensure food security while preserving soil quality microbial biodiversity and providing business opportunities for farmers Biostimulants based on microorganisms or organic substances obtained from renewable materials represent a sustainable efficient technology or complement to synthetic counterparts to improve nutrient use efficiency and secure crop yield stability Under the new European Union Regulation 2019 1009 plant biostimulants were defined based on four agricultural functional claims as follows Plant biostimulants are products that

stimulate plant nutrition processes independently of the product s nutrient content with the sole aim of improving one or more of the following characteristics of the plant and or the plant rhizosphere 1 nutrient use efficiency 2 tolerance resistance to a biotic stress 3 quality characteristics or 4 availability of confined nutrients in the soil or rhizosphere Many diverse natural substances and chemical derivatives of natural or synthetic compounds as well as beneficial microorganisms are cataloged as plant biostimulants including i humic substances ii plant or animal based protein hydrolysates iii macro and micro algal extracts iv silicon v arbuscular mycorrhizal fungi AMF and vi plant growth promoting rhizobacteria PGPR belonging to the Azotobacter Azospirillum and Rhizobium genera King Tyrant Mark P. Witton, 2025-05-13 King Tyrant A Natural History of Tyrannosaurus Rex is an accessible synthesis of our understanding of the evolutionary position life history and biomechanics of the T rex It explores answers to classic questions such as how fast could it run what were its small arms for or was it a predator or scavenger At the same time it uncovers new questions like was it one species or many and what did it look like The text also delves into our own relationship with T rex from a historic overview to pop culture references and discusses whether our love for the dinosaur has helped or hindered our research and understanding **Resources for IB DP Biology: Course Book ebook** Andrew Allott, David Mindorff, 2023-04-06 Featuring a wealth of engaging content this concept based Course Book has been developed in cooperation with the IB to provide the most comprehensive support for the DP Biology specification for first teaching from September 2023 Created by experienced IB authors examiners and teachers it is packed with activities questions and opportunities to regularly practice plus extensive assessment preparation support Use this print Course Book alongside the digital course on Oxford's Kerboodle platform for the best teaching and learning experience Oxford's DP Science offer brings together the IB curriculum and future facing functionality enabling success in DP and beyond 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 **Ebook: Life-Span Development** Santrock, 2016-09-16 Ebook Life Span **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 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 Ebook: The Science of Psychology: An Appreciative View King, 2016-09-16 Ebook The Science of Psychology An measured Iquazu Falls Marcelo José da Silva de Magalhães, 2021-01-01 Dear reader I am sure that the Iquazu Appreciative View 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 Iquazu 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 The Red Cell Life-Cycle From Erythropoiesis to Clearance Lars Kaestner, Anna Bogdanova, 2019-02-05 The eBook The red cell life cycle from erythropoiesis to clearance continues the discussion of questions like What are the changes associated with red blood cell maturation adulthood and senescence What are the determinants of red blood cell life span and clearance What are the mechanisms in control of red blood cell mass in healthy humans and patients with various forms of anaemia Can red blood cells be trained to provide the body with more oxygen during endurance exercises What are the markers of circulating red blood cell senescence and in cells during storage and transfusion And what can be learned from various species that developed advanced adaptations to maintain oxygen delivery under stress conditions such as exercising to the limit diving or living in anaerobic aquatic habitats or at high altitude Within the approximately 120 days or 40 in a mouse or 150 170 in a horse life span of healthy red blood cells many cellular

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

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functioning has been investigated mainly at steady state under constant illumination This approach was necessary to understand the basic mechanisms underlying the light reactions and carbon assimilation However this condition does not reflect the natural environment where plants experience changes in both the intensity and spectrum of irradiance in a wide range of time scales spanning from seconds to several hours In recent years it has become clear that the processes allowing the photosynthetic apparatus to adapt to changes in irradiance are of paramount importance to plant fitness and productivity Therefore increased research effort has been directed towards studying the regulation of photosynthetic activity under fluctuating light i e upon the variation of light intensity or light spectrum This is important for understanding how photosynthetic organisms cope with natural environmental conditions Fluctuating light itself constitutes a potentially stressful condition because depending on the scale of the fluctuation it can transiently generate extreme redox and transthylakoid potentials and forces the photosynthetic machinery to be re adjusted Not surprisingly plants have evolved several mechanisms allowing a prompt response to these normal environmental events In natural environments photosynthetic organisms often have to cope with fluctuating light while experiencing other kinds of stress such as heat nutrient deficiency drought and pathogen attacks Therefore the study of combined stresses is essential for understanding the acclimation to realistic environmental conditions

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