

Chapter 19: Viruses

1. What was some early evidence of the existence of viruses? Why were they difficult to study?

In 1883, Adolf Mayer discovered that he could transmit tobacco mosaic disease from plant to plant by rubbing sap extracted from diseased leaves into healthy plants. After an unsuccessful search for an infectious microbe in the sap, Mayer suggested that the disease was caused by unusually small bacteria that were invisible under a microscope. A decade later, Ivanowsky reasoned that such bacteria were small enough to pass through a porcelain filter or made a toxin that could do so. The latter idea was ruled out when Martinus Beijerinck showed that the infectious agent in the filtered sap could replicate, but, unlike bacteria used in the lab at that time, could not be cultivated on nutrient media in test tubes or petri dishes. Beijerinck imagined a replicating particle much smaller and simpler than a bacterium. Because viruses are so small, they are difficult to detect and study.

2. What was Wendell Stanley's contribution to our knowledge of viruses?

In 1935, Stanley crystallized the tobacco mosaic virus (TMV), confirming Beijerinck's concept. Subsequently, many viruses could be seen with an electron microscope.

3. What are the four forms of viral genomes?

Viral genomes may consist of double-stranded DNA, single-stranded DNA, double-stranded RNA, or single-stranded RNA.

4. What is a capsid? What are capsomeres? What different shapes may capsids have?

The protein shell enclosing the viral genome is called a capsid. Depending on the type of virus, the capsid may be rod-shaped, polyhedral, or more complex in shape, like T4. Capsids are built from a large number of protein subunits called capsomeres, but the number of different kinds of proteins in a capsid is usually small.

5. What are the components of a viral envelope?

Viral Component	Derived From
phospholipids and membrane proteins	host cell
proteins and glycoproteins	viral origin

6. What is the role of an envelope in animal viruses?

Viral envelopes contain host cell phospholipids and membrane proteins, as well as proteins and glycoproteins of viral origin. These accessory structures help viruses infect their hosts.

7. What is a bacteriophage T4? ✓

"Bacteriophage" means "bacteria eater." T4's host is *E. coli* and its genome consists of DNA.

8. What property of a virus determines its attachment to a host cell membrane?

Viruses usually identify host cells by a "lock-and-key" fit between viral surface proteins and specific receptor molecules on the outside of cells.

9. Viruses are obligate intracellular proteins. What does this mean?

Viruses can only replicate within a host cell, subsisting on "borrowed life."

10. What is meant by host range?

Each particular virus can infect cells of only a limited number of host species, called the host range of the virus. This host specificity results from the evolution of recognition systems by the virus. Some viruses have broad host ranges. For example, West Nile virus can infect mosquitoes, birds, horses, and humans. Other viruses have host ranges so narrow

Ap Biology Chapter 19 Viruses Study Answers

Boris Bigalke



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Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information

The Togaviruses Walter R Schlesinger, 2012-12-02 The Togaviruses Biology Structure Replication deals with the biology structure and replication of rotaviruses This book covers topics such as the biochemistry of rotaviruses and the biological and medical challenges they pose It also gives an account of their mechanisms of replication that might lead to perceptions of the capacity to solve biological and epidemiological problems through the concepts and technology of molecular biology This text is comprised of 21 chapters that explore clinical details routine procedures for diagnostic virus isolation and identification and for serological tests immunological host responses the role of interferons antiviral chemotherapy and vaccine development The discussion begins with a historical overview of arboviruses followed by a description of all the viruses that belong to Togaviridae These include alpha and flaviviruses rubiviruses pestiviruses and other non arbo togaviruses The next chapters focus on the arthropod vertebrate arthropod transmission cycle and its experimental equivalents along with the viruses structure composition and replication This book concludes with a summary of physicochemical morphological and clinical data on non arbo togaviruses This reference material will be of interest to physicians veterinarians ecologists entomologists epidemiologists cell biologists immunologists virologists physical chemists biochemists molecular biologists and geneticists

The Life of a Virus Angela N. H. Creager, 2002 We normally think of viruses in terms of the devastating diseases they cause from smallpox to AIDS But in The Life of a Virus Angela N H Creager introduces us to a plant virus that has taught us much of what we know about all viruses including the lethal ones and that also played a crucial role in the development of molecular biology Focusing on the tobacco mosaic virus TMV research conducted in Nobel laureate Wendell Stanley's lab Creager argues that TMV served as a model system for virology and molecular biology much as the fruit fly and laboratory mouse have for genetics and cancer research She examines how the experimental techniques and instruments Stanley and his colleagues developed for studying TMV were generalized not just to other labs working on TMV but also to research on

other diseases such as poliomyelitis and influenza and to studies of genes and cell organelles The great success of research on TMV also helped justify increased spending on biomedical research in the postwar years partly through the National Foundation for Infantile Paralysis s March of Dimes a funding priority that has continued to this day

Modern Biology
Towle, Albert Towle, 1991

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Biological Inquiry Neil A. Campbell, Margaret Waterman, Ethel Stanley, Jane B. Reece, 2007-12 This workbook offers an investigative case study for each unit of the book Each case study requires students to synthesize information from one unit of the text and apply that knowledge to a real world scenario as they evaluate new information analyze evidence plot data or seek explanations This workbook includes two new case studies one on avian influenza and one on hedgehog developmental pathways

Unsterblich essen Boris Bigalke, 2024-06-10 In Unsterblich essen wird die revolutionäre Verbindung zwischen Ernährung und einem vitalen energiegeladenen Leben enthüllt Der renommierte Ernährungsexperte Prof Dr med Boris Bigalke MBA Oxford UK LL M präsentiert bahnbrechende Erkenntnisse die die herkömmlichen Vorstellungen von Gesundheit und Vitalität auf den Kopf stellen Basierend auf jahrelanger Forschung und klinischer Erfahrung bietet dieses Buch einen umfassenden Leitfaden für alle die ein Leben in Vollgas führen möchten Mit einem einzigartigen Mix aus wissenschaftlich fundierten Informationen und praktischen Tipps zeigt Prof Bigalke wie eine gezielte Ernährung und Bewegungsprogramme dazu beitragen können den Alterungsprozess zu verlangsamen die Zellen zu regenerieren und die Energie auf ein explosives Niveau zu steigern Von Superfoods bis hin zu 50 ausgewählten Kochrezepten für unterschiedliche Lebensphasen bietet Unsterblich essen konkrete Anleitungen um die Ernährung und den Lebensstil zu optimieren und das volle Potential des eigenen Körpers auszuschöpfen Doch dieses Buch ist mehr als nur ein Ratgeber für gesunde Ernährung Prof Bigalke geht dar

ber hinaus und untersucht die tieferen Zusammenhänge zwischen Nahrung, Geist und Körper. Er erläutert wie unsere Lebensgewohnheiten nicht nur unseren physischen Zustand beeinflussen sondern auch unsere geistige Klarheit, emotionale Stabilität und spirituelle Entwicklung beeinflussen können. Unsterblich essen macht deutlich dass ein Leben voller Vitalität und Jugendlichkeit für jeden erreichbar ist, der bereit ist die Macht der richtigen Ernährung und eines sinnvollen Lebensstils zu erkennen und zu nutzen. Dieses Buch ist ein unverzichtbarer Begleiter für alle die den Schlüssel zu einem Leben in Vollgas und unermüdlicher Energie suchen. *Animal model studies on viral infections* Akio Adachi, Tomoyuki Miura, 2015-03-13

Understanding viral replication and pathogenicity properties in infected individuals is a major mission of animal virology. Animal models are essential to analyze the in vivo viral characteristics and to develop countermeasures against viruses. To fight against a wide variety of viruses, basic studies with specific and/or common approaches are required. This Research Topic collects articles that describe studies on numerous virus species at various stages toward animal experiments: i) description, evaluation, new challenges of animal model studies; ii) experimental material, methods for animal model studies; iii) observations for upcoming animal model studies. Numbers of DNA and RNA viruses such as HHV-6, HPV, Ebola virus, HCV, dengue virus, HTLV-1, HIV-1, SIV and measles virus are covered by this special issue consisting of original research, methods review, mini review and opinion articles. All readers would understand, we believe and hope that animal model studies are critical for current virology as always. **Understanding Viruses** Teri Shors, 2013. Introduction to viruses, Eukaryotic molecular biology and host cell constraints, Virus replication cycles, Virus architecture and nomenclature, Laboratory diagnosis of viral diseases, Mechanisms of viral entry and spread of infection in the body, Host resistance to viral infections, Epidemiology, The history of medicine, clinical trials, gene therapy and xenotransplantation, Viruses and cancer, Poliovirus and other enteroviruses, Influenza viruses, Rabies, Poxviruses, Herpesviruses, Human immunodeficiency virus, HIV, Hepatitis viruses, Emerging new and re-emerging viruses, What about prions and viroids, Plant viruses, The best for last: bacteriophages.

Features, Transmission, Detection, and Case Studies in COVID-19 Rajkumar Rajendram, Victor R Preedy, Vinood Patel, 2024-06-15. Features, Transmission, Detection and Case Studies in COVID-19 examines the effects of the virus on the body as well as its transmission and clinical profile. This volume begins with an introduction to the virus and its pathogenesis, transmission and avoidance, followed by sections on pulmonary and cardiovascular effects, obesity, diabetes, the liver, detection issues and biomarkers. Vaccines and treatment are also discussed. Specific case studies covered include hypoxia, acute kidney injury, pneumonia and neurological effects. This volume is relevant for all clinicians and scientists working to ensure the best outcomes for patients with COVID-19. Discusses COVID-19 biology including pathogenesis and transmission. Describes systemic issues caused by COVID-19 including cardiovascular effects and loss of taste and smell. Outlines detection methods, biomarkers associated with severity and disease outcomes. Features individual chapter introductions, summaries and case studies to provide comprehensive descriptions of COVID-19 symptoms and effects. Contains chapters with key facts dictionary.

of terms summary points applications to other areas pertinent to each chapter and policies and procedures

Introduction to Plant Diseases George B. Lucas, Lee Campbell, 2012-12-06 Every year we see a remarkable increase in scientific knowledge We are learning more each day about the world around us about the numerous biological organisms of the biosphere about the physical and chemical processes that shaped and continue to change our planet The cataloging retrieval dissemination and use of this new information along with the continued development of new computer technology provide some of the most challenging problems in science as we enter the Information Age With the explosion of knowledge in science it is especially important that students in introductory courses learn not only the basic material of a subject but also about the newest developments in that subject With this goal in mind we have prepared a second edition of *Introduction to Plant Diseases Identification and Management* We prepared this edition with the same general purpose that we had for the first edition to provide practical up to date information that helps in the successful management of diseases on food fiber and landscape plants for students who do not have a strong background in the biological sciences We included new information on 1 the precise identification of diseases and the pathogens that cause them 2 the development of epidemics of plant diseases 3 the application of biotechnology in plant pathology 4 the use of alternative methods of crop production and disease management that help protect the environment and 5 diseases that have become more important since the first edition was published

Coronavirus Therapeutics - Volume I Alexander A. A. Asea, Punit Kaur, 2022-02-07 The book *Coronavirus Therapeutics Volume I* provides the most comprehensive review on contemporary knowledge on the origin and structural biology and molecular aspects of Coronaviruses This also describes the etiology and pathogeny and therapeutic targets including vaccine drug candidates against Coronaviruses in the light of current scientific knowledge Using an integrative approach to the understanding of Coronaviruses structure function and immunobiology the contributors provide a synopsis of novel mechanisms by which Coronaviruses can be treated Key basic and clinical research laboratories from major universities academic medical hospitals biotechnology and pharmaceutical laboratories around the world have contributed articles that review present research activity on the role of heat shock proteins in human diseases and importantly project the field into the future The book is a must read for graduate students medical students basic science researchers and postdoctoral scholars in the fields of Cancer Biology Oncology Cardiovascular Diseases Microbiology Inflammation Translational Medicine Clinical Research Biotechnology Cell Molecular Medicine Pharmaceutical Scientists and Researchers involved in Drug Discovery

Cumulated Index Medicus, 1965

5 Steps to a 5: AP Biology 2017 Cross-Platform Prep Course Mark Anestis, Kellie Ploeger Cox, 2016-07-29 A proven 5 step study guide for today's digital learners preparing for the AP Biology exam The wildly popular test prep guide updated and enhanced for today's digital learners AP Biology Cross Platform Prep Course 2017 provides a proven strategy for achieving high scores on this demanding Advanced Placement exam as well as access to the whole course in print online and on mobile devices This logical and easy to follow

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