

The Ebola Virus

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3D model of Ebola virus, the causative agent of a severe form of viral hemorrhagic fever in human with a 50–90% fatality rate. The Ebola virion is 80 nm in diameter and up to 1,400 nm long. It contains both virus-encoded proteins (maroon shades) and structures taken from the host cell (gray shades). The model is based on X-ray analysis, NMR spectroscopy, and general virology data published in the last two decades.

GP is a transmembrane fusion protein. It forms trimers on the virion surface and mediates virus attachment and entry to the host cell. [11]*

The viral membrane may contain **human proteins**, such as components of the Mitochondrion complex or other surface receptors [2], which — in some cases — can increase the infectivity of the enveloped viruses. [3, 4]

VP40 and VP24 are Ebola major and minor matrix proteins. They form a layer beneath the membrane and are crucial for virus budding. [5, 6]

Ebola RNA is packed with the NP proteins. Together, they make a nucleocapsid — a spiral structure in the very center of the virion. [7]

L stands for the large Ebola protein — the polymerase. It is responsible for the synthesis of positive sense virus RNA. [8]

VP30 and VP30 are minor Ebola proteins. They act as interferon antagonists and transcription activation factors. [9, 10]

The budding viral particle is wrapped in the lipid membrane taken from the human cell. [11]

100 nm

This model contains accurate models of 11 types of Ebola and human proteins, 18900 nucleotides of genomic RNA and more than 2.5 million lipid molecules.

*For more information and references visit www.visualsciencecompany.com/ebola

The Science Of Ebola

Vincent Rollet



The Science Of Ebola:

Ebola Tammy Gagne,2021-12-15 The Ebola virus was discovered in Africa in the 1970s Since then it has caused several terrifying outbreaks In some of them more than half of the infected people died Ebola explores the history and science behind this disease as well as how it s treated Easy to read text vivid images and helpful back matter give readers a clear look at this subject Features include a table of contents infographics a glossary additional resources and an index Aligned to Common Core Standards and correlated to state standards Core Library is an imprint of Abdo Publishing a division of ABDO

Ebola: An Evolving Story James Lyons-weiler,2015-05-27 Selected as CHOICE magazine s Outstanding Academic Title January 2017 The book is a narrative of the unfolding of the Ebola virus disease outbreak from a scientific view point The author provides an analysis of the scientific basis of public health policies that have influenced the public s and the medical community s abilities to understand the virus and the disease This is done in the context of providing insights into the biology of the virus and exploring open questions including its likely modes of transmission The author has included citations from the scientific literature and the press as well as quotes from expert interviews The book will help sort out the fact from fiction given the confusion that arose after the virus arrived in the US The author used his objective research skills and knowledge of evolutionary genetics and molecular biology to find out what was known and what questions remained unanswered and even what questions remained unasked Written in an accessible style it is intended for the educated general public scientists policy makers health care workers and politicians It delves into the problems of trying to derive a logic based understanding of a highly lethal emerging disease in 2014 when research funding cuts have gutted research institutions and when public health institutions really were woefully unprepared It is a highly distinct narrative analysis that is sure to stimulate new research and thinking in public policy It will inform thousands of people of the nature of the virus how it works in terms they are likely to be able to understand It will allow others to rapidly catch up with the story of Ebola **The Science of**

Natural Disasters Quantum Scientific Publishing,2023-09-27 Have you ever wondered what causes an earthquake an avalanche or a tsunami The Science of Natural Disasters is an easy to read non technical introduction to what causes some of the many natural disasters that happen all over our world The book was written for the average lay reader and assumes very little prior background in science [The Science of Ebola](#) Applied Research Press,James Bonnar,2014-11-12 Connecting

minds with knowledge With its acclaimed authors cutting edge content emphasis on medical relevance and coverage based on landmark research The Science of Ebola has earned an impeccable reputation as an authoritative and exciting curated research journal and learning aid perfect for students medical professionals and other sophisticated readers Hundreds of hours were spent compiling and editing this volume such that its readers are conveniently brought up to speed on the subject presenting many of the latest and most important developments in the field This volume presents 20 cutting edge research papers on ebola curated by our experts for maximal significance Articles include Transmission dynamics and control of Ebola

virus disease EVD a review Ebola epidemics and ethics what we have learned Outbreaks of Ebola virus disease in Africa the beginnings of a tragic saga Need of surveillance response systems to combat Ebola outbreaks and other emerging infectious diseases in African countries Recombinant lentogenic Newcastle disease virus expressing Ebola virus GP infects cells independently of exogenous trypsin and uses macropinocytosis as the major pathway for cell entry Impact on nurses of ebola outbreak Guidance for contact tracing of cases of Lassa fever Ebola or Marburg haemorrhagic fever on an airplane results of a European expert consultation A time of fear local national and international responses to a large Ebola outbreak in Uganda Prediction and identification of mouse cytotoxic T lymphocyte epitopes in Ebola virus glycoproteins Induction of ebolavirus cross species immunity using retrovirus like particles bearing the Ebola virus glycoprotein lacking the mucin like domain Ebola haemorrhagic fever outbreak in Masindi District Uganda outbreak description and lessons learned Tackling Ebola new insights into prophylactic and therapeutic intervention strategies Full length Ebola glycoprotein accumulates in the endoplasmic reticulum A bioengineering approach for rational vaccine design towards the Ebola Virus Large serological survey showing cocirculation of Ebola and Marburg viruses in Gabonese bat populations and a high seroprevalence of both viruses in Rousettus aegyptiacus Effect of Ebola virus proteins GP NP and VP35 on VP40 VLP morphology Packaging of actin into Ebola virus VLPs and Ebola virus infection inversely correlates with the overall expression levels of promyelocytic leukaemia PML protein in cultured cells

Ebola Myths and Facts For Dummies Edward K. Chapnick, 2015-01-07

Concerned about ebola but can't seem to separate fact from fiction Misinformation abounds about the virus but Chapnick dives into the details to let you know the history signs and symptoms testing protocols modes of transportation and ways to prevent and treat the Ebola virus

Ebola's Message Nicholas G. Evans, Tara C. Smith, Maimuna S. Majumder, 2024-11-26

Interdisciplinary perspectives on the science politics and ethics of the 2013 2015 Ebola virus disease outbreak The 2013 2015 outbreak of the Ebola virus disease EVD was a public health disaster 28 575 infections and 11 313 deaths as of October 2015 devastating the countries of Guinea Liberia and Sierra Leone a slow and mismanaged international response and sensationalistic media coverage seized upon by politicians to justify wrongheaded policy And yet there were also promising developments that may improve future responses to infectious disease epidemics the UN Security Council's first involvement in a public health event a series of promising clinical treatments and vaccines for EVD and recognition of the need for a global public health system to deal with epidemics that cross national borders This volume offers a range of perspectives on these and other lessons learned with essays on the science politics and ethics of the Ebola outbreak The contributors discuss topics including the virology and management of EVD in both rich and poor nations the spread of the disease with an essay by a leader of Médecins Sans Frontières racist perceptions of West Africa mainstream and social media responses to Ebola and the ethical issue of whether to run clinical trials of experimental treatments during an outbreak Contributors Christian L. Althaus Daniel G. Bausch Adia Benton Michael J. Connor Jr Kim Yi Dionne Nicholas G. Evans Morenike Oluwatoyin Folayan

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The Oxford Handbook of the Science of Science Communication Kathleen Hall Jamieson, Dan M. Kahan, Dietram Scheufele, 2017 On topics from genetic engineering and mad cow disease to vaccination and climate change this Handbook draws on the insights of 57 leading science of science communication scholars who explore what social scientists know about how citizens come to understand and act on what is known by science

Defense of the Scientific Hypothesis Bradley Eugene Alger, 2020 Defense of Scientific Hypothesis From Reproducibility Crisis to Big Data argues that the scientific hypothesis is the key to understanding what science is about and explains its importance for scientists and non scientists alike Most scientists like the general public receive only cursory formal instruction about the scientific hypothesis Since we all constantly assess what's going on around us we continually formulate and test hypotheses consciously and unconsciously The book distinguishes scientific from statistical hypotheses analyzes the benefits of hypotheses and hypothesis testing sorts out sciences that do not require hypotheses discusses educational and social policies relating to the hypothesis and offers advice on recognizing and formulating hypotheses

Understanding Viruses Teri Shors, 2017 Understanding Viruses continues to set the standard for the fundamentals of virology This classic textbook combines molecular clinical and historical aspects of human viral diseases in a new stunning interior design featuring high quality art that will engage readers Preparing students for their careers the Third Edition greatly expands on molecular virology and virus families This practical text also includes the latest information on influenza global epidemiology statistics and the recent outbreaks of Zika and Ebola viruses to keep students on the forefront of cutting edge virology information Numerous case studies and feature boxes illuminate fascinating research and historical cases stimulate student interest making the best selling Understanding Viruses the clear choice in virology Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook student practice activities and assessments a full suite of instructor resources available to adopting instructors with course ID and learning analytics reporting tools available to adopting instructors with course ID

Biological Threats and Terrorism Institute of Medicine, Board on Global Health, Forum on Emerging Infections, 2002-04-07 In the wake of September 11th and recent anthrax events our nation's bioterrorism response capability has become an imminent priority for policymakers researchers public health officials academia and the private sector In a three day workshop convened by the Institute of Medicine's Forum on Emerging Infections experts from each of these communities came together to identify clarify and prioritize the next steps that need to be taken in order to prepare and strengthen bioterrorism response capabilities From the discussions it became clear that of utmost urgency is the need to cast the issue of a response in an appropriate framework in order to attract the attention of Congress and the public in order to garner sufficient and sustainable support for such initiatives No matter how the issue is cast numerous workshop

participants agreed that there are many gaps in the public health infrastructure and countermeasure capabilities that must be prioritized and addressed in order to assure a rapid and effective response to another bioterrorist attack

Representing Scientific Knowledge Chaomei Chen, Min Song, 2017-11-25 This book is written for anyone who is interested in how a field of research evolves and the fundamental role of understanding uncertainties involved in different levels of analysis ranging from macroscopic views to meso and microscopic ones We introduce a series of computational and visual analytic techniques from research areas such as text mining deep learning information visualization and science mapping such that readers can apply these tools to the study of a subject matter of their choice In addition we set the diverse set of methods in an integrative context that draws upon insights from philosophical sociological and evolutionary theories of what drives the advances of science such that the readers of the book can guide their own research with their enriched theoretical foundations Scientific knowledge is complex A subject matter is typically built on its own set of concepts theories methodologies and findings discovered by generations of researchers and practitioners Scientific knowledge as known to the scientific community as a whole experiences constant changes Some changes are long lasting whereas others may be short lived How can we keep abreast of the state of the art as science advances How can we effectively and precisely convey the status of the current science to the general public as well as scientists across different disciplines The study of scientific knowledge in general has been overwhelmingly focused on scientific knowledge per se In contrast the status of scientific knowledge at various levels of granularity has been largely overlooked This book aims to highlight the role of uncertainties in developing a better understanding of the status of scientific knowledge at a particular time and how its status evolves over the course of the development of research Furthermore we demonstrate how the knowledge of the types of uncertainties associated with scientific claims serves as an integral and critical part of our domain expertise Fake News in

Contemporary Science and Politics Keith Moser, 2024-04-22 This transdisciplinary book investigates the profound repercussions of living in a post truth world in which alternative facts and post truth knowledge claims often bordering on the absurd have replaced the real in the collective imagination of millions of people around the planet Through discussions on climate change denial the anti vaccination movement the January 6th Insurrection and the Russia Ukraine War this study explores the gravity of the current infodemic or the increasing inability of a large segment of the population to distinguish between reality and misrepresentation and the destabilizing impact this infodemic has on democratic models of governance around the globe coinciding with the rise of autocratic forms of populism **The Shapes of Epidemics and Global**

Disease Andrea Patterson, Ian Read, 2020-08-28 This volume investigates the multifaceted SHAPES socio historic artistic political and ecological significance of global disease It challenges conventional views of infection and transmission by associating epidemics with ideologies and their accompanying institutions It argues that the physical threat of epidemics is irrevocably linked to culture economic resources social class and power Epidemics involve both the infected and non infected

affect the local and global and they expose control and neglect This book provides a radical collaborative approach drawing contributors from closely related and vastly distant fields in the search for innovative ways to address human suffering and to find real solutions that may determine whether people live or die Such an approach is needed within an increasingly interconnected world where both pathological diseases and health behaviors are infectious Experts from fifteen diverse disciplines in the natural sciences social sciences and arts and humanities present case studies from across the world and time demonstrating the uniqueness of each disease and epidemic in its place but also the shared experiences that span human life and death In order to identify measure and control epidemics we must understand epidemics more as long biosocial processes than abrupt events in nature or culture Such methodology examines the meaning we attach to epidemics as well as their material reality and provides a more complete understanding of how epidemics shape and are shaped

Risk Communication and Infectious Diseases in an Age of Digital Media Anat Gesser-Edelsburg,Yaffa Shir-Raz,2016-11-10

In a digital world where the public s voice is growing increasingly strong how can health experts best exert influence to contain the global spread of infectious diseases Digital media sites provide an important source of health information however are also powerful platforms for the public to air personal experiences and concerns This has led to a growing phenomenon of civil skepticism towards health issues including Emerging Infectious Diseases and epidemics Following the shift in the role of the public from recipients to a vocal entity this book explores the different organizational strategies for communicating public health information and identifies common misconceptions that can inhibit effective communication with the public Drawing on original research and a range of global case studies this timely volume offers an important assessment of the complex dynamics at play in managing risk and informing public health decisions Providing thought provoking analysis of the implications for future health communication policy and practice this book is primarily suitable for academics and graduate students interested in understanding how public health communication has changed It may also be useful to health care professionals

Challenged Earth: An Overview Of Humanity's Stewardship Of Earth Stephen F Lincoln,2006-01-11 This timely book provides a comprehensive insight into the challenges facing humanity and Earth in the 21st century It opens with a discussion of the domination of all the continents and oceans by a growing human population This is followed by an appraisal of the extent to which water and food supplies will be able to accommodate this population which may reach eleven billion by 2100 The rapidly increasing ability to change biology and evolution through genomics is considered next and complements a discussion of disease which is viewed largely as an evolutionary struggle between humanity and pathogens A seemingly insatiable demand for energy future energy supplies and the impact of their use on climate and attempts to ameliorate these effects are next examined The book concludes with a discussion of the partial destruction of the ozone layer and the international effort to repair the damage a

Health Care in the United States Howard P. Greenwald,2022-04-26 A one stop resource covering American health care and the challenges it faces In the newly

revised Second Edition of *Health Care in the United States* Organization Management and Policy distinguished health and organizational researcher Dr Howard P Greenwald delivers a comprehensive exploration of the US health care system and the challenges its practitioners professionals and consumers face From organization to management financing and evaluation this book discusses the critical concepts trends and features of this sprawling set of interlocking systems It also examines the historical origins of modern health care and how it delivers services to over 300 million Americans Readers will discover Modern controversies in American health care that animate political debate and discussion including the Affordable Care Act Discussions of the health care labor force as well as its history background and crucial challenges Possible future directions for US health care including preventive medicine new policy initiatives and proposals for reform Written for students and professionals working in or studying health care management health policy public health medical sociology or anthropology social work or political science this latest edition of *Health Care in the United States* is also a fascinating read for members of the general public curious about one of the most important services they ll ever interact with

The European Parliament and Global Health Vincent Rollet, 2024-08-02 This book examines the actorness of the European Parliament EP and its roles in global health In doing so it appreciates to what extent this democratically elected entity can be considered as a global health actor Applying an original analytical framework to measure actorness the book assesses the EP s capacity to act regarding five major global health issues including the pandemic response access to essential medicines in developing countries international trade and global health medical research and development in the field of poverty related and neglected diseases PRNDs and global health governance It demonstrates that despite many challenges the EP has indeed displayed a polymorphic actorness and multiple roles towards most of these global health issues especially by succeeding in mobilizing its main competences and instruments to deal with them finalizing initiatives and having a substantive influence on the way they were addressed As such the book reveals the salience of democratically elected institutions for global health governance This book will be of key interest to students and scholars of European studies global and regional health legislative studies and International Relations but also to parliamentarians and non governmental actors engaged in global health

Panic, Transnational Cultural Studies, and the Affective Contours of Power Micol Seigel, 2018-07-04 This volume explores the panic that is a central affective register of our current international order Fears of Somali pirates Gypsy kidnappers African warlords Ebola Mexican meth pimps coyotes gangs climate refugees and more structure the dark side of a metropolitan unconscious These are terrors over things that might cross borders threatening the sanctity of territoriality and capital Inspired by scholarship challenging panics around human and sex trafficking the contributors to this volume develop the umbrella category of the global moral panic Embracing the challenge of grasping a phenomenon not previously regarded as cohering they consider panics provoked by travel passage transgression panics over bodies that move Like panics over trafficking the episodes narrated here ride and feed a field of common sense regarding crime rights and state

power Their logics of victims and villains nourish notions of the centrality of punishment drawing from and feeding taxonomies of gender race and nation solidifying the order craved by capital They spotlight the colonality of power the ongoing salience of empire the savior logics of rescue and the profound sexism organizing hierarchies of bodies and places Panic this volume diagnoses is a crucial undertheorized facet of contemporary local global relations Current Bibliographies in Medicine ,1988 **PAPERS IN NIGERIAN LINGUISTICS** PATIENCE OBIAGERI SOLOMON-ETEFIA,

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