

The Ebola Virus

VIRAL PARK
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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 1400 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 protein. 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

**Nicholas G. Evans, Tara C.
Smith, Maimuna S. Majumder**



The Science Of Ebola:

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

Six Degrees: The Science of a Connected Age Duncan J. Watts, 2004-02-17 The pioneering young scientist whose work on the structure of small worlds has triggered an avalanche of interest in networks In this remarkable book Duncan Watts one of the principal architects of network theory sets out to explain the innovative research that he and other scientists are spearheading to create a blueprint of our connected planet Whether they bind computers economies or terrorist organizations networks are everywhere in the real world yet only recently have scientists attempted to explain their mysterious workings From epidemics of disease to outbreaks of market madness from people searching for information to firms surviving crisis and change from the structure of personal relationships to the technological and social choices of entire societies Watts weaves together a network of discoveries across an array of disciplines to tell the story of an explosive new field of knowledge the people who are building it and his own peculiar path in forging this new 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 Stephen Goldstein Bridget Haire Patricia C Henwood Kelly Hills Cyril Ibe Marjorie Kruvand Lisa M Lee Maimuna S Majumder Alexandra L Phelan Annette Rid Cristine Russell Lara Schwarz Laura Seay Michael Selgelid Tara C Smith Armand Sprecher **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 **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 **Social Mobilization and the Ebola Virus Disease in Liberia** John Perry, T. Debey Sayndee, 2016-12-01 The Ebola virus disease represented a grave crisis for Liberia After many years of civil conflict its health system had been weakened and there were too few physicians and health care workers who were willing and able to deal effectively with the disease which spread far beyond Africa to Europe and the United States of America The book offers a convenient summary of the background of the EVD crisis and the ways it was defeated by the public who were energized by the gravity of the situation It discusses the lessons learned the effect of the disease on children and the way forward for the international health care system to prepare itself better for possible future epidemics of the same scale and gravity **Ebola's Evolution** Michael B. A. Oldstone, Madeleine Rose Oldstone, 2021-06-04 This book provides an intimate portrait of multiple outbreaks of Ebola in Africa and reveals how the results of that experience can help us fight COVID 19 Michael B A Oldstone who led the Viral Immunobiology Laboratory at the Scripps Research Institute worked with Ebola teams up with Madeleine Rose Oldstone to give a detailed account of the 2013 2016 and 2018 2020 Ebola outbreaks The authors trace the origin of the disease its spread like a tsunami thru Guinea Sierra Leone and Liberia the collapse of economies and the development of anti viral therapies against Ebola They compare the outbreaks of one of the world's deadliest viruses with today's struggle to overcome the COVID 19 pandemic You will gain intimate knowledge of a deadly pathogen that devastated a region of the world that lacks resources to fight it and learn why the world was unprepared for the Ebola outbreak You will meet people who fought heroically with limited resources including Sheik Kahn who died fighting Ebola and was declared a national hero by the Sierra Leone government Pardis Sabeti a geneticist working in infectious diseases from Harvard and MIT who was named Scientist of the Year by Time magazine and Robert Garry who headed the fight against viral hemorrhagic diseases and kept the White House and the press informed Sabeti and Garry worked with Oldstone and provided information about the outbreak to the authors making the narrative particularly incisive and timely Ebola's Evolution will give you a fast paced detailed and fascinating picture of a

feared disease that killed thousands of people and threatening to become a global pandemic before it was stopped **The Science of Religion, Spirituality, and Existentialism** Kenneth E. Vail III, Clay Routledge, 2020-04-04 The Science of Religion Spirituality and Existentialism presents in depth analysis of the core issues in existential psychology their connections to religion and spirituality e g religious concepts beliefs identities and practices and their diverse outcomes e g psychological social cultural and health Leading scholars from around the world cover research exploring how fundamental existential issues are both cause and consequence of religion and spirituality informed by research data spanning multiple levels of analysis such as evolution cognition and neuroscience emotion and motivation personality and individual differences social and cultural forces physical and mental health among many others The Science of Religion Spirituality and Existentialism explores known contours and emerging frontiers addressing the big question of why religious belief remains such a central feature of the human experience Discusses both abstract concepts of mortality and concrete near death experiences Covers the struggles and triumphs associated with freedom self regulation and authenticity Examines the roles of social exclusion experiential isolation attachment and the construction of social identity Considers the problems of uncertainty the effort to discern truth and reality and the challenge to find meaning in life Discusses how the mind developed to handle existential topics how the brain and mind implement the relevant processes and the many variations and individual differences that alter those processes Delves into the psychological functions of religion and science the influence on pro and antisocial behavior politics and public policy and looks at the role of spiritual concerns in understanding the human body and maintaining physical health **Handbook of Research on Optimizing Healthcare Management Techniques**

Wickramasinghe, Nilmini, 2019-12-27 Healthcare is noted for using leading edge technologies and embracing new scientific discoveries to enable better cures for diseases and better means to enable early detection of most life threatening diseases However the healthcare industry globally and in the US specifically has been extremely slow to adopt technologies that focus on better practice management and administrative needs Presently healthcare is grappling with many challenges both nationally and globally including escalating costs a move to a preventative care environment and a technologically savvy patient with high expectations The Handbook of Research on Optimizing Healthcare Management Techniques is a pivotal reference source that provides an extensive and rich compilation of various ICT initiatives and examines the role that ICT plays and will play in the future of healthcare delivery It represents ways in which healthcare delivery can be made superior and the healthcare industry can begin to address the major challenges it faces in the 21st century so that ultimately the most important person in the web of healthcare players the patient can be confident about receiving high quality cost effective healthcare While highlighting topics such as e health medical informatics and patient value this publication explores the role of supportive technologies as well as the methods of focused patient centric outcomes This book is ideally designed for doctors nurses hospital administrators medical staff hospital directors medical boards IT consultants health practitioners

academicians researchers and students **State Magazine** ,2015 **International Case Studies in the Management of Disasters** Babu George,Qamar-ud-Din Mahar,2020-11-30 Showcasing internationally sourced case studies on disaster management International Case Studies in the Management of Disasters presents a diverse range of case studies on how disasters both natural and manmade are being managed globally *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 **Ebola's Curse** Michael B.A. Oldstone,Madeleine R. Oldstone,2017-07-18 Ebola s Curse 2013 2016 Outbreak in West Africa is about hemorrhagic fever viruses especially Ebola its initial origin in central Africa 1976 its unprecedented appearance in West Africa in 2013 The book records in sequence and detective style how the initial outbreak of Ebola from the index case in rural Guinea traveled to Sierra Leone the work and fate of those working in the Kenema Government Hospital KGH isolation ward in Sierra Leone The book provides vignettes of the three main players involved with Ebola at KGH Sheik Khan Pardis Sabeti and Robert Garry Khan was the head of the unit declared a national hero by his Sierra Leone government He died fighting Ebola and was is recognized in the USA by American societies by awards created for his historic work and death Pardis Sabeti a geneticist from Harvard and Broad MIT Institute who was honored as a Scientist of the Year by Time Magazine and the Smithsonian Institute Robert Garry head of the operation to fight hemorrhagic fevers and Ebola shuttled between Tulane University KGH and The White House to make aware through the press and others the dilemma and tragedy that was unfolding and the need to obtain additional medical and health care support and supplies Sabeti and Garry currently work with Oldstone on Ebola at KGH and thus personal communication and knowledge was is available to the author for the book Includes perspectives from the 2013 2016 outbreak in West Africa Provides a detailed overview of the origins of Ebola virus through present day discoveries Written with an integrative approach incorporating scientific research with insights from the field on Public Health and Medical History **Denying to the Grave** Sara E. Gorman,Jack M. Gorman,2021-05-03 With science denial as a

rising danger to public health Sara E Gorman and Jack M Gorman analyze society's resistance to scientific evidence relating to health and safety and the tools to combat these tendencies Why do some parents decide not to vaccinate their children Why do some people keep guns at home despite ample evidence that doing so increases the risk of a gun related injury And why do people use antibiotics for illnesses that antibiotics cannot possibly alleviate When it comes to health many people believe that science is wrong that the evidence is incomplete and that unidentified hazards lurk everywhere In Denying to the Grave Sara Gorman and Jack Gorman explore the psychology of health science denial Using several examples as case studies they propose six key principles that may lead people to reject accepted health related wisdom the charismatic leader fear of complexity confirmation bias fear of corporate and government conspiracies causality and filling the ignorance gap and the nature of risk prediction This fully updated and expanded new edition of Denying to the Grave reviews the most recent research on health science denial offering a brand new chapter on how the contemporary assault on science waged by certain political administrations has eroded public trust in national health and science agencies such as CDC FDA and EPA Also new to this edition is a chapter investigating the relationship between health crises and misinformation and what happens to science denial amidst a global public health crisis Finally the book proposes a novel approach to counteracting misinformation and improving our ability to understand and accept scientific consensus In an era in which trust in science has become more important and yet more elusive than ever before Denying to the Grave sheds light on why we often choose to ignore scientific evidence pointing the way toward a new understanding of how science should be conveyed to the public in order to save lives with existing knowledge and technology

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

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

The Science and Practice of Resilience Igor Linkov, Benjamin D. Trump, 2019-01-17 This book offers a comprehensive view on resilience based upon state of the science theories and methodological applications that resilience may fill Specifically this text provides a compendium of knowledge on the theory methods and practice of resilience across a variety of country and case contexts and demonstrates how a resilience based approach can help further improved infrastructure vibrant societies and sustainable environments and ecologies among many others Resilience is a term with thousands of years of history Only recently has resilience been applied to the management of complex interconnected systems yet its impact as a governing philosophy and an engineering practice has been pronounced Colloquially resilience has been used as a synonym for bouncing back Philosophically and methodologically however it is much more In a world defined by interconnected and interdependent systems such as water food energy transportation and the internet a sudden and unexpected disruption to one critical system can lead to significant challenges for many others The Science and Practice of Resilience is beneficial for those seeking to gain a rich knowledge of the resilience world as well as for practitioners looking for methods and tools by which resilience may be applied in real world contexts

Ethics and Integrity in Health and Life Sciences Research Zvonimir Koporc, 2018-12-06 This important volume covers ethics and integrity in health and life sciences research It addresses concerns in gene editing dual use and misuse of biotechnologies big data and nutritional science in health and medicine and covers attempts at ensuring ethical practices in such fields are shared internationally

The Science Of Ebola Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Science Of Ebola**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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The Science Of Ebola :

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in this chapter the fundamentals of nuclear radioactivity and the nucleus are explored the following two chapters explore the more important applications of nuclear physics in the field of medicine we will also explore the basics of what we know about quarks and other substructures smaller than nuclei

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physics concept development atomic nucleus and radioactivity 5 5 precisely accurately and thoroughly the very essence and all the fundamental details of the theory and that is a remarkable achievement i have greatly enjoyed reading these books and learned so many new things from them this series of books will remain a permanent source of

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles

spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

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notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with 1Å 10⁻¹⁰ m where Å is an ångström according to anders jonas Ångström the term

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