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The Germ Theory and Its Applications to Medicine and Surgery. Pasteur, Louis. 1909-14. Scientific Papers. The Harvard Classics. 1 T HE S CIENCES gain by mutual support. When, as the result of my first communications on the fermentations in 18571858, it appeared that the ferments, properly so-called, are living beings, that the germs of microscopic organisms abound in the surface of all objects, in the air and in water; that the theory of spontaneous generation is chimerical; that wines ...

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His investigations into fermentation, food preservation, diseases affecting silkworms, anthrax and fowl cholera had tremendous commercial applications and led to conclusions that revolutionized physiology, pathology, and therapeutics.

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Germ theory led to the realizations that hand washing helps prevent the spread of disease, disinfectant can eliminate germs, and specific microorganisms cause specific diseases. This theory expanded knowledge, which helped prevent diseases and began to control epidemics. The introduction of germ theory affected how humanity viewed the human body.

Germ Theory - Turning Points For Humanity

Germ Theory and Its Applications to Medicine & on the Antiseptic Principle of the Practice of Surgery. Louis Pasteur, Joseph Lister. Prometheus Books, 1996 - Medical - 144 pages. 0 Reviews. Before...

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Louis Pasteur (Author of Germ Theory and Its Applications ...

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Germ Theory And Its Applications To Medicine And. Surgery1. [Footnote 1: Read before the French Academy of Sciences, April 29th, 1878. Published in Comptes rendus de l'Academie des Sciences, lxxxvi., pp. 1037-43.] The Sciences gain by mutual support. When, as the result of my first communications on the fermentations in 1857-1858, it appeared that the ferments, properly so-called, are living beings, that the germs of microscopic organisms abound in the surface of all objects, in the air and ...

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The Germ Theory and Its Applications to Medicine and Surgery; On the Extension of the Germ Theory to the Etiology of Certain Common Diseases

Pasteur, Louis. 1909-14. Scientific Papers. Vol. 38, Part ...

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Buy Germ Theory and Its Applications to Medicine and on the Antiseptic Principle of the Practice of Surgery by Pasteur, Louis online on Amazon.ae at best prices. Fast and free shipping free returns cash on delivery available on eligible purchase.

Before the introduction of antiseptics and inoculation, people commonly died due to unsanitary conditions in the home, or following surgery or childbirth. Between them, the great scientists Louis Pasteur (1822-1893) and Joseph Lister (1827-1912) extended widely the practice of inoculation and revolutionized medical practice. Pasteur's discovery that living organisms are the cause of fermentation formed the basis of the modern germ theory. Following Pasteur's researches, Lister proceeded to develop his antiseptic surgical methods. These breakthroughs in medicine are to be reckoned among the greatest discoveries of the nineteenth century.

Named as Choice Outstanding Academic Title 2012 From Hippocrates to Lillian Wald—the stories of scientists whose work changed the way we think about and treat infection. Describes the genesis of the germ theory of disease by a dozen seminal thinkers such as Jenner, Lister, and Ehrlich. Presents the "inside stories" of these pioneers' struggles to have their work accepted, which can inform strategies for tackling current crises in infectious diseases and motivate and support today's scientists. Relevant to anyone interested in microbiology, infectious disease, or how medical discoveries shape our modern understanding

AIDS. Ebola. "Killer microbes." All around us the alarms are going off, warning of the danger of new, deadly diseases. And yet, as Nancy Tomes reminds us in her absorbing book, this is really nothing new. A remarkable work of medical and cultural history, *The Gospel of Germs* takes us back to the first great "germ panic" in American history, which peaked in the early 1900s, to explore the origins of our modern disease consciousness. Little more than a hundred years ago, ordinary Americans had no idea that many deadly ailments were the work of microorganisms, let alone that their own behavior spread such diseases. *The Gospel of Germs* shows how the revolutionary findings of late nineteenth-century bacteriology made their way from the laboratory to the lavatory and kitchen, with public health reformers spreading the word and women taking up the battle on the domestic front. Drawing on a wealth of advice books, patent applications, advertisements, and oral histories, Tomes traces the new awareness of the microbe as it radiated outward from middle-class homes into the world of American business and crossed the lines of class, gender, ethnicity, and race. Just as we take some of the weapons in this germ war for granted—fixtures as familiar as the white porcelain toilet, the window screen, the refrigerator, and the vacuum cleaner—so we rarely think of the drastic measures deployed against disease in the dangerous old days before antibiotics. But, as Tomes notes, many of the hygiene rules first popularized in those days remain the foundation of infectious disease control today. Her work offers a timely look into the history of our long-standing obsession with germs, its impact on twentieth-century culture and society, and its troubling new relevance to our own lives.

This single Web page is a plain-text version of 'Extension of the germ theory', read by Louis Pasteur before the French Academy des Sciences in May 1880 and published in Comptes rendus de l'Academie des Sciences, vol. 86. This Web page is part of the Internet modern history sourcebook, edited by Paul Halsall of Fordham University. The text has been taken from Scientific papers: physiology, medicine, surgery, geology; with introductions, notes and illustrations (N.Y.: P.F. Collier and Son, c1910).

Science, Medicine, and Animals explains the role that animals play in biomedical research and the ways in which scientists, governments, and citizens have tried to balance the experimental use of animals with a concern for all living creatures. An accompanying Teacher's Guide is available to help teachers of middle and high school students use Science, Medicine, and Animals in the classroom. As students examine the issues in Science, Medicine, and Animals, they will gain a greater understanding of the goals of biomedical research and the real-world practice of the scientific method in general. Science, Medicine, and Animals and the Teacher's Guide were written by the Institute for Laboratory Animal Research and published by the National Research Council of the National Academies. The report was reviewed by a

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committee made up of experts and scholars with diverse perspectives, including members of the U.S. Department of Agriculture, National Institutes of Health, the Humane Society of the United States, and the American Society for the Prevention of Cruelty to Animals. The Teacher's Guide was reviewed by members of the National Academies' Teacher Associates Network. Science, Medicine, and Animals is recommended by the National Science Teacher's Association NSTA Recommends.

The past 25 years have seen a major paradigm shift in the field of violence prevention, from the assumption that violence is inevitable to the recognition that violence is preventable. Part of this shift has occurred in thinking about why violence occurs, and where intervention points might lie. In exploring the occurrence of violence, researchers have recognized the tendency for violent acts to cluster, to spread from place to place, and to mutate from one type to another. Furthermore, violent acts are often preceded or followed by other violent acts. In the field of public health, such a process has also been seen in the infectious disease model, in which an agent or vector initiates a specific biological pathway leading to symptoms of disease and infectivity. The agent transmits from individual to individual, and levels of the disease in the population above the baseline constitute an epidemic. Although violence does not have a readily observable biological agent as an initiator, it can follow similar epidemiological pathways. On April 30-May 1, 2012, the Institute of Medicine (IOM) Forum on Global Violence Prevention convened a workshop to explore the contagious nature of violence. Part of the Forum's mandate is to engage in multisectoral, multidirectional dialogue that explores crosscutting, evidence-based approaches to violence prevention, and the Forum has convened four workshops to this point exploring various elements of violence prevention. The workshops are designed to examine such approaches from multiple perspectives and at multiple levels of society. In particular, the workshop on the contagion of violence focused on exploring the epidemiology of the contagion, describing possible processes and mechanisms by which violence is transmitted, examining how contextual factors mitigate or exacerbate the issue. Contagion of Violence: Workshop Summary covers the major topics that arose during the 2-day workshop. It is organized by important elements of the infectious disease model so as to present the contagion of violence in a larger context and in a more compelling and comprehensive way.

A groundbreaking look at the connection between germs and mental illness, and how we can protect ourselves. Is it possible to catch autism or OCD the same way we catch the flu? Can a child's contact with cat litter lead to schizophrenia? In her eye-opening new book, National Book Critics Circle Award-winning author Harriet Washington reveals that we can in fact "catch" mental illness. In *Infectious Madness*, Washington presents the new germ theory, which posits not only that many instances of Alzheimer's, OCD, and schizophrenia are caused by viruses, prions, and bacteria, but also that with antibiotics, vaccinations, and other strategies, these cases can be easily prevented or treated. Packed with cutting-edge research and tantalizing mysteries, *Infectious Madness* is rich in science, characters, and practical advice on how to protect yourself and your children from exposure to infectious threats that could sabotage your mental and physical health.

For thousands of years, we've found ways to scorch, scour, and sterilize our surroundings to make them safer. Sometimes these methods are wonderfully effective. Often, however, they come with catastrophic consequences—consequences that aren't typically understood for generations. The *Chemical Age* tells the captivating story of the scientists who waged war on famine and disease with chemistry. With depth and verve, Frank A. von Hippel explores humanity's uneasy coexistence with pests, and how their existence, and the battles to exterminate them, have shaped our modern world. Beginning with the potato blight tragedy of the 1840s, which led scientists on an urgent mission to prevent famine using pesticides, von Hippel traces the history of pesticide use to the 1960s, when Rachel Carson's *Silent Spring* revealed that those same chemicals were insidiously damaging our health and driving species toward extinction. Telling the story of these pesticides in vivid detail, von Hippel showcases the thrills and complex consequences of scientific discovery. He describes the invention of substances that could protect crops, the emergence of our understanding of the way diseases spread, the creation of chemicals used to kill pests and people, and, finally, how scientists turned those wartime chemicals on the landscape at a massive scale, prompting the vital environmental movement that continues today. *The Chemical Age* is a dynamic, sweeping history that exposes how humankind's affinity for pesticides made the modern world possible—while also threatening its essential fabric.

This book shows how vitamin A deficiency — before the vitamin was known to scientists — affected millions of people throughout history. It is a story of sailors and soldiers, penniless mothers, orphaned infants, and young children left susceptible to blindness and fatal infections. We also glimpse the fortunate ones who, with ample vitamin A-rich food, escaped this elusive stalker. Why were people going blind and dying? To unravel this puzzle, scientists around the world competed over the course of a century. Their persistent efforts led to the identification of vitamin A and its essential role in health. As a primary focus of today's international public health efforts, vitamin A has saved hundreds of thousands of lives. But, we discover, they could save many more were it not for obstacles erected by political and ideological zealots who lack a historical perspective of the problem. Although exhaustively researched and documented, this book is written for intellectually curious lay readers as well as for specialists. Public health professionals, nutritionists, and historians of science and medicine have much to learn from this book about the cultural and scientific origins of their disciplines. Likewise, readers interested in military and cultural history will learn about the interaction of health, society, science, and politics. The author's presentation of vitamin A deficiency is likely to become a classic case study of health disparities in the past as well as the present.

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