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The Germ Theory and Its Applications to Medicine and Surgery. Pasteur, Louis. 1909-14. Scientific Papers. The Harvard Classics. 1 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 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,

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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

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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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Louis Pasteur and Germ Theory - YouTube

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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Before the introduction of antiseptics and inoculation, people commonly died due to unsanitary

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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

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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).

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

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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

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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.

The riveting history of tuberculosis, the world's most lethal disease, the two men whose lives it tragically intertwined, and the birth of medical science. In 1875, tuberculosis was the deadliest disease in the world, accountable for a third of all deaths. A diagnosis of TB—often called consumption—was a death sentence. Then, in a triumph of medical science, a German doctor named Robert Koch deployed an unprecedented scientific rigor to discover the bacteria that caused TB. Koch soon embarked on a remedy—a remedy that would be his undoing. When Koch announced his cure for consumption, Arthur Conan Doyle, then a small-town doctor in England and sometime writer, went to Berlin to cover the event. Touring the ward of reportedly cured patients, he was horrified. Koch's "remedy" was either sloppy science or outright fraud. But to a world desperate for relief, Koch's remedy wasn't so easily dismissed. As Europe's consumptives descended upon Berlin, Koch urgently tried to prove his case. Conan Doyle, meanwhile, returned to England determined to abandon medicine in favor of writing. In particular, he turned to a character inspired by the very scientific methods that Koch had formulated:

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Sherlock Holmes. Capturing the moment when mystery and magic began to yield to science, *The Remedy* chronicles the stunning story of how the germ theory of disease became a true fact, how two men of ambition were emboldened to reach for something more, and how scientific discoveries evolve into social truths.

Beginning with the germ theory of disease in the 19th century and extending through most of the 20th century, microbes were believed to live their lives as solitary, unicellular, disease-causing organisms. This perception stemmed from the focus of most investigators on organisms that could be grown in the laboratory as cellular monocultures, often dispersed in liquid, and under ambient conditions of temperature, lighting, and humidity. Most such inquiries were designed to identify microbial pathogens by satisfying Koch's postulates.³ This pathogen-centric approach to the study of microorganisms produced a metaphorical "war" against these microbial invaders waged with antibiotic therapies, while simultaneously obscuring the dynamic relationships that exist among and between host organisms and their associated microorganisms—only a tiny fraction of which act as pathogens. Despite their obvious importance, very little is actually known about the processes and factors that influence the assembly, function, and stability of microbial communities. Gaining this knowledge will require a seismic shift away from the study of individual microbes in isolation to inquiries into the nature of diverse and often complex microbial communities, the forces that shape them, and their relationships with other communities and organisms, including their multicellular hosts. On March 6 and 7, 2012, the Institute of Medicine's (IOM's) Forum on Microbial Threats hosted a public workshop to explore the emerging science of the "social biology" of microbial communities. Workshop presentations and discussions embraced a wide spectrum of topics, experimental systems, and theoretical perspectives representative

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of the current, multifaceted exploration of the microbial frontier. Participants discussed ecological, evolutionary, and genetic factors contributing to the assembly, function, and stability of microbial communities; how microbial communities adapt and respond to environmental stimuli; theoretical and experimental approaches to advance this nascent field; and potential applications of knowledge gained from the study of microbial communities for the improvement of human, animal, plant, and ecosystem health and toward a deeper understanding of microbial diversity and evolution. The Social Biology of Microbial Communities: Workshop Summary further explains the happenings of the workshop.

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

Access Free Germ Theory And Its Applications To Medicine And On The Antiseptic Principle Of The Practice Of Surgery Great disparities in the past as well as the present.

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