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March of the Microbes shows us how to examine, study, and appreciate microbes in the manner of a birdwatcher, by making sightings of microbial activities and thereby identifying particular microbes as well as understanding what they do and how they do it. The sightings are as different as a smelly rock cod, a bottle of Chateau dâe(tm)Yquem, a moment in the Salem witch trials, and white clouds over the ocean.

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March of the Microbes: Sighting the Unseen 4.5

StarsThis is a nicely written, fascinatingly informative book about microbe watching and how microbes function to produce the effects we see.

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March of the Microbes. Book Description: ... Over the next series of sightings we will trace this chemical supply network and see that it is cyclic, beginning with and returning to Earth's vast reserve of nitrogen in the form of atmospheric nitrogen gas.

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It represents scary things like germs that cause death, disease, and decay. Reading March of the Microbes provides a different and broader view. Its sightings include information about microbes and our food, our health, our planet, and our future. But to keep us on our toes the book also has sightings of the "dark side" of microbes.

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"March of the Microbes" by John L. Ingraham explores the fascinating effect that these seemingly invisible organisms have on the world all around us. I include "March of the Microbes" in the recommended reading section of Chapter 8: Leaky Gut Syndrome in my book YOUR BODY CAN TALK: HOW TO USE SIMPLE MUSCLE TESTING FOR HEALTH AND WELL BEING. Ingraham's work is well written and gives readers a simplified and easily understandable look into the world of microbes and biology.

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Though we might not be able to see microbes, the consequences of their activities are readily apparent to our unaided senses. This book shows us how to examine, study, and appreciate microbes in the manner of a birdwatcher, by making sightings of microbial activities and thereby identifying particular microbes and understanding their behavior.

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A Choice Outstanding Academic Title Renowned microbiologist John Ingraham rescues the supremely important and ubiquitous microorganisms from their unwonted obscurity by showing us how we can, in fact, see and appreciate them.

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Filling a major gap in the philosophy of biology by examining central philosophical issues in microbiology, this book is aimed at philosophers and scientists who wish to gain insight into the basic philosophical issues of microbiology. Topics are drawn from evolutionary microbiology, microbial ecology, and microbial classification.

Explore the fundamental role of microbes in the natural history of our planet... Inspired by a 2009

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colloquium on microbial evolution convened at the Galapagos Islands, *Microbes and Evolution* continues to celebrate Charles Darwin and his landmark book *On the Origin of Species*. Through this collection of 40 first-person essays written by microbiologists with a passion for evolutionary biology, you'll come to understand how their thinking and career paths in science were influenced by Darwin's seminal work. The essays in *Microbes and Evolution* explore how the evidence of microbial evolution deeply and personally affected each scientist. Prepare to be surprised and delighted with their views on the importance of evolutionary principles in the study of a variety of aspects of life science, from taxonomy, speciation, adaptation, social structure, and symbiosis to antibiotic resistance, genetics and genomics.

Contains primary source material.

From a noted Cambridge zoologist, a wildly fun and scientifically sound exploration of what alien life must be like, using universal laws that govern life on Earth and in space. Scientists are confident that life exists elsewhere in the universe. Yet rather than taking a realistic approach to what aliens might be like, we imagine that life on other planets is the stuff of science fiction. The time has come to abandon our fantasies of space invaders and movie monsters and place our expectations on solid scientific footing. But short of aliens landing in New York City, how do we know what they are like? Using his own expert understanding of life on Earth and Darwin's theory of evolution--which applies throughout the universe--Cambridge zoologist Dr. Arik Kershenbaum

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explains what alien life must be like: how these creatures will move, socialize, and communicate. For example, by observing fish whose electrical pulses indicate social status, we can see that other planets might allow for communication by electricity. As there was evolutionary pressure to wriggle along a sea floor, Earthling animals tend to have left/right symmetry; on planets where creatures evolved in midair or in soupy tar, they might be lacking any symmetry at all. Might there be an alien planet with supersonic animals? A moon where creatures have a language composed of smells? Will aliens scream with fear, act honestly, or have technology? The Zoologist's Guide to the Galaxy answers these questions using the latest science to tell the story of how life really works, on Earth and in space.

Joining the ranks of popular science classics like *The Botany of Desire* and *The Selfish Gene*, a groundbreaking, wondrously informative, and vastly entertaining examination of the most significant revolution in biology since Darwin—a “microbe’s-eye view” of the world that reveals a marvelous, radically reconceived picture of life on earth. Every animal, whether human, squid, or wasp, is home to millions of bacteria and other microbes. Ed Yong, whose humor is as evident as his erudition, prompts us to look at ourselves and our animal companions in a new light—less as individuals and more as the interconnected, interdependent multitudes we assuredly are. The microbes in our bodies are part of our immune systems and protect us from disease. In the deep oceans, mysterious creatures without mouths or guts depend on microbes for all their

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energy. Bacteria provide squid with invisibility cloaks, help beetles to bring down forests, and allow worms to cause diseases that afflict millions of people. Many people think of microbes as germs to be eradicated, but those that live with us—the microbiome—build our bodies, protect our health, shape our identities, and grant us incredible abilities. In this astonishing book, Ed Yong takes us on a grand tour through our microbial partners, and introduces us to the scientists on the front lines of discovery. It will change both our view of nature and our sense of where we belong in it.

Infection with antibiotic-resistant microbes, often referred as "super-bugs," in hospitals can be a common problem. A conventional solution to the problem is to find a new antibiotic. This solution simply accelerates an arms race between microbes and pharmaceutical companies which try to develop an effective antibiotic. We should search for a completely new approach to the problem. This book might suggest an alternative approach for the superbug problem. It describes the tragic experience of a student nurse, Betty, who performed the world's first fecal transplant. It is not well known to the general public, but there are some diseases that infect mostly patients in hospitals. These diseases are often referred to as post-operative complications or a new infection, due to patients' weakened immune system. Pseudo membranous colitis (PM colitis) was one of such diseases, which predominantly affects patients after surgery of the digestive system. It had a high fatality rate, but there was no known effective treatment. An odd circumstance pushed Betty to perform the world's first fecal transplant and

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demonstrate its effectiveness. However, because of the stigma attached to feces, fellow medical staff ridiculed her to such a degree that she could not remain as a staff nurse. Later academic researchers identified the pathogen of PM colitis as *Clostridium difficile* (*C. diff*), and renamed the disease C-diff infection. Again although fecal transplant was an effective treatment for the disease, the mainstream establishment of the medical community ignored the treatment. When *C. diff* evolved an antibiotic-resistant strain, hundred-thousands of patients died in hospitals every year around the world. In the United States, bureaucratic hurdles prevented research of fecal transplant, despite such a high mortality rate. Eventually, the news of effectiveness of fecal transplant spread on the Internet and many patients started doing by themselves with help of friends and relatives because medical doctors were unwilling to perform such illegal treatment. In 2013, after more than fifty years from Betty's action, FDA finally and reluctantly allowed doctors to perform fecal transplant for limited cases of C-diff infection. FDA also renamed the procedure FMT (Fecal Microbiota Transplantation.) Meanwhile Betty suffered personal tragedy, but she finally retired and enjoyed her peaceful life knowing that the mainstream of the medical community accepted fecal transplant, even for limited cases. This book also comments on the FDA and NIH's role in new drug development, especially concerned about Ebola epidemic.

The stewards of Earth, these organisms transformed the chemistry of our planet to make it habitable for plants, animals, and us.

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The Siwak is one tool of hygiene which holds particular importance in Islam. It is a simple twig for cleaning the teeth, originating from the desert but popularised for ever more by the example and directives of the Messenger of Allah Ta'ala. It is no exaggeration to say that Rasulullah [PBUH] is the first dental educator in proper oral hygiene in history. The Prophet's Siwak of choice was from the Arak (Aloes tree or *Salvadora Persica*). The Siwak is a natural twig fortified with natural minerals that help clean the teeth, other inhibitors that prevent gums from bleeding, cleaning agents that kill microbes and germs and remove plaque, and a scent that gives breath a naturally fresh smell. The Siwak is an ideal, natural brush that has been endowed with more than any artificial toothpaste could ever have. The wicks on the Siwak clean between the teeth and do not break under any amount of pressure; rather, they are flexible and strong. The small wicks bend to the appropriate shape to get plaque and leftover food out from in between teeth while avoiding any damage to the gums. The Siwak is comprised of many beneficial ingredients. Most significant among them are: - Antibacterial acidic inhibitors that fight decay. They are natural disinfectants and can be used to stop bleeding. They disinfect the gums and teeth and close any microscopic cuts that may have existed in the gums. On first usage, the Siwak will taste harsh, and maybe even burn, because of a mustard-like substance found in it, but this is the ingredient that fights decay in the mouth and kills germs. - Minerals such as sodium chloride, potassium, sodium bicarbonate and calcium oxides. These clean the

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teeth. The American Dental Association considers sodium bicarbonate to be a preferred ingredient in toothpastes. - Natural scented oils that taste and smell nice, give the mouth a pleasant smell. They make up about 1% of the Siwak. - Enzymes that prevent the build-up of plaque that causes gum disease. Plaque is also the no. 1 cause of premature loss of teeth. - Anti-decay and anti-germ ingredients that act as a penicillin of sorts, decreasing the amount of bacteria in the mouth, which means cleaner teeth and cleaner air when breathing through the mouth. The presence of these properties has actually encouraged some toothpaste laboratories to incorporate powdered stems and/or root material of *Salvadora Persica* in their products.

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