

Kingdoms And Domains An Illustrated Guide To The Phyla Of Life On Earth 4th Edition

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Kingdoms and Domains: Illustrated Phyla of Life: An Illustrated Guide to the Phyla of Life on Earth by Lynn Margulis; Michael J. Chapman at AbeBooks.co.uk - ISBN 10: 0123736218 - ISBN 13: 9780123736215 - Academic Press Inc - 2009 - Hardcover

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Because fungi often differ only in subtle characteristics such as the details of structure, pigments, and complex organic compounds, it is likely that many have not yet been recognized as distinct species. Fossil fungi date from the Ordovician period, 450-500 mya. The ancestry of fungi is not well understood.

Kingdoms and Domains | ScienceDirect

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"This extraordinary, all inclusive catalogue of the world's living organisms describes the diversity of the major groups, or phyla, of nature's most inclusive taxa. Developed after consultation with specialists, this modern classification scheme is consistent both with the fossil record and with recent molecular, morphological and metabolic data. Generously illustrated, now in full color, Kingdoms and Domains is remarkably easy to read. It accesses the full range of life forms that still inhabit our planet and logically and explicitly classifies them according to their evolutionary relationships. Definitive characteristics of each phylum are professionally described in ways that, unlike most scientific literature, profoundly respect the needs of educators, students and nature lovers. This work is meant to be of interest to all evolutionists as well as to conservationists, ecologists, genomicists, geographers, microbiologists, museum curators, oceanographers, paleontologists and especially nature lovers whether artists, gardeners or environmental activists."--Jacket.

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The Third Domain is the untold story of how the discovery of a new form of life -- first ridiculed, then ignored for the past thirty years by mainstream scientists -- is revolutionizing science, industry, and even our search for extraterrestrial life. Classification is a serious issue for science: if you don't know what you're looking at, how can you interpret what you see? Starting with Carolus Linnaeus in the 17th century, scientists have long struggled to order and categorize the many forms of life on Earth. But by the early 20th century the tree of life seemed to have stabilized, with two main domains of life at its roots: single-celled and multi-celled organisms. All creatures fit into one of these two groups. Or so we thought. But in 1977, a lone scientist named Carl Woese determined that archaea -- biochemically and genetically unique organisms that live and thrive in some of the most inhospitable environments on Earth -- were a distinct form of life, unlike anything seen on Earth before. This shocking discovery was entirely incompatible with the long-standing classification of life as we know it. But as it turned out, archaea were not life as we know it, and the tree of life had to be uprooted once again. Now, archaea are being hailed as one of the most important scientific revelations of the 20th century. The Third Domain tells the story of their strange potential and investigates their incredible history to provide a riveting account of an astonishing discovery.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

How do new species evolve? Although Darwin identified inherited variation as the creative force in evolution, he never formally speculated where it comes from. His successors thought that new species arise from the gradual accumulation of random mutations of DNA. But despite its acceptance in every major textbook, there is no documented instance of it. Lynn Margulis and Dorion Sagan take a radically new approach to this question. They show that speciation events are not, in fact, rare or hard to observe. Genomes are acquired by infection, by feeding, and by other ecological associations, and then inherited. Acquiring Genomes is the first work to integrate and analyze the overwhelming mass of evidence for the role of bacterial and other symbioses in the creation of plant and animal diversity. It provides the most powerful explanation of speciation yet given.

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Fungi research and knowledge grew rapidly following recent advances in genetics and genomics. This book synthesizes new knowledge with existing information to stimulate new scientific questions and propel fungal scientists on to the next stages of research. This book is a comprehensive guide on fungi, environmental sensing, genetics, genomics, interactions with microbes, plants, insects, and humans, technological applications, and natural product development.

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.

An expert explains how the conventional wisdom about decision making can get us into trouble--and why experience can't be replaced by rules, procedures, or analytical methods. In making decisions, when should we go with our gut and when should we try to analyze every option? When should we use our intuition and when should we rely on logic and statistics? Most of us would probably agree that for important decisions, we should follow certain guidelines--gather as much information as possible, compare the options, pin down the goals before getting started. But in practice we make some of our best decisions by adapting to circumstances rather than blindly following procedures. In *Streetslights and Shadows*, Gary Klein debunks the conventional wisdom about how to make decisions. He takes ten commonly accepted claims about decision making and shows that they are better suited for the laboratory than for life. The standard advice works well when everything is clear, but the tough decisions involve shadowy conditions of complexity and ambiguity. Gathering masses of information, for example, works if the information is accurate and complete--but that doesn't often happen in the real world. (Think about the careful risk calculations that led to the downfall of the Wall Street investment houses.) Klein offers more realistic ideas about how to make decisions in real-life settings. He provides many examples--ranging from airline pilots and weather forecasters to sports announcers and Captain Jack Aubrey in Patrick O'Brian's *Master and Commander* novels--to make his point. All these decision makers saw things that others didn't. They used their expertise to pick up cues and to discern patterns and trends. We can make better decisions, Klein tells us, if we are prepared for complexity and ambiguity and if we will stop expecting the data to tell us everything.

Every new copy of the print book includes access code to Student Companion Website!The Tenth Edition of Jeffrey Pommerville's best-selling, award-winning classic text *Fundamentals of Microbiology* provides nursing and allied health students with a firm foundation in microbiology. Updated to reflect the Curriculum Guidelines for Undergraduate Microbiology as recommended by the American Society of Microbiology, the fully revised tenth edition includes all-new pedagogical features and the most current research data. This edition incorporates updates on infectious disease and the human microbiome, a revised discussion of the immune system, and an expanded Learning Design Concept feature that challenges students to develop critical-thinking skills.Accessible enough for introductory students and comprehensive enough for more advanced learners, *Fundamentals of Microbiology* encourages students to synthesize information, think deeply, and develop a broad toolset for analysis and research. Real-life examples, actual published experiments, and engaging figures and tables ensure

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