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***Principles Of
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**This is the first and only book, so far, to
deal with the causal basis of evolution**

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from an epigenetic view. By revealing the epigenetic "user" of the "genetic toolkit", this book demonstrates the primacy of epigenetic mechanisms and epigenetic information in generating evolutionary novelties. The author convincingly supports his theory with a host of examples from the most varied

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fields of biology, by emphasizing changes in developmental pathways as the basic source of evolutionary change in metazoans. Original and thought provoking--a radically new theory that overcomes the present difficulties of the theory of evolution Is the first and only theory that uses epigenetic mechanisms

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and principles for explaining evolution of metazoans Takes an integrative approach and shows a wide range of learning

A theoretical study dealing chiefly with matters of definition and clarification of terms and concepts involved in using Darwinian notions to model social

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phenomena.

There is an increasing realization among biophysical scientists that human behavior drastically impacts the degree to which sound agroecosystems are implemented. Written by an international team of experts assembled by a leading rural sociologist,

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Interactions Between Agroecosystems and Rural Communities shows how human behavior impacts agroecosyst
Epigenetic Principles of Evolution, Second Edition, fully examines the causal basis of evolution from an epigenetic point-of-view. By revealing the epigenetic uses of the genetic toolkit,

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this work demonstrates the primacy of epigenetic mechanisms and epigenetic information in generating evolutionary novelties. The author convincingly supports his theoretical perspective with examples from varied fields of biology, emphasizing changes in developmental pathways as the basic source of

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evolutionary change in metazoans. Users will find a broader view of the epigenetic mechanisms of evolution, moving beyond conventional changes in epigenetic structures, such as DNA methylation, histone modifications, and patterns of miRNA, sRNA, and mRNA expression. This second edition is

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thoroughly updated to reflect new evidence and developing theories in the field of evolutionary epigenetics. New and revised chapters speak to the epigenetic basis of heredity, epigenetic regulation of animal structure and homeostasis, neural manipulation of gene expression, central control of

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gametogenesis, epigenetic control of early development, the origin of epigenetic information, evolutionary changes in response to environmental stressors, epigenetics of sympatric evolution, and the epigenetics of the Cambrian explosion, among other topics. Adopts an integrative approach

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**to examine the causal basis of evolution
from an epigenetic point-of-view**

**Features new and revised chapters
which reflect novel experimental and
observational evidence in the field of
evolutionary epigenetics, as well as
alternative theoretical approaches
Offers a broad view of epigenetic**

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mechanisms of evolution, moving beyond conventional changes in epigenetic mechanisms, such as DNA methylation, histone modifications, and patterns of miRNA, sRNA and mRNA expression

Principles of Human Evolution presents an in-depth introduction to

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paleoanthropology and the study of human evolution. Focusing on the fundamentals of evolutionary theory and how these apply to ecological, molecular genetic, paleontological and archeological approaches to important questions in the field, this timely textbook will help students

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gain a perspective on human evolution in the context of modern biological thinking. The second edition of this successful text features the addition of Robert Foley, a leading researcher in Human Evolutionary Studies, to the writing team. Strong emphasis on evolutionary theory, ecology and

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behavior and scores of new examples reflect the latest evolutionary theories and recent archaeological finds.

More than a simple update, the new edition is organized by issue rather than chronology, integrating behavior, adaptation and anatomy. A new design and new figure references make this

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edition more accessible for students and instructors. New author, Robert Foley – leading figure in Human Evolutionary Studies – joins the writing team.

Dedicated website –

www.blackwellpublishing.com/lewin – provides study resources and artwork downloadable for Powerpoint

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presentations. Beyond the Facts boxes – explore key scientific debates in greater depth. Margin Comments – indicate the key points in each section. Key Questions – review and test students' knowledge of central chapter concepts and help focus the way a student approaches reading the text.

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New emphasis on ecological and behavioral evolution – inkeeping with modern research. Fully up to date with recent fossil finds and interpretations;integration of genetic and paleoanthropological approaches. CliffsNotes Biology Quick Review Second Edition

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**Hawaiian Natural History, Ecology, and
Evolution**

Principles of Cloning

With Emphasis on Developmental

**Mechanisms of Evolutionary Change in
Metazoans**

Evolutionary Theory and Human Nature is
an original, highly theoretical work

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dealing with the transition from genes to behavior using general principles of evolution, especially those of sexual selection. It seeks to develop a seamless transition from genes to human motivations as bio-electric brain processes (emotional-cognitive processes), to human nature propensities (various constellations

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of emotional-cognitive forces, desires and fears) to species typical patterns of behavior. This work covers two often antagonistic fields: biology and the social sciences. It should be of strong interest to anthropologists, sociologists, sociobiologists, psychobiologists and psychologists who are interested in the

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question of human nature influences on social behavior.

Digitalization of societies has important ramifications for citizens and businesses. The digital landscape is rapidly changing, whereas at the same time there are growing concerns about how market access in the EU's digital market as well

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as fundamental rights can be sufficiently safeguarded in the shadow of 'big data' and algorithms. This timely and important book presents expert analyses of how digitalization raises questions of the future role for general principles of European Union (EU) law, including the foundational principles of the EU's

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fundamental economic freedoms and EU competition rules. Examining a number of issues revolving around the internal market, the digital single market, competition law, intellectual property, data protection, democracy and the rule of law, the contributors provide deeply informed insights of the challenges as to:

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effects of the technological disruption on the doctrine of general principles; the resilience of general principles in the digital society; the need to rely on new general principles in the digital society; the realization of the digital single market; the safeguarding of fundamental rights and the rule of law. The contributors are

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highly esteemed scholars from major European universities. A common theme is the need for judicial evolution of EU fundamental rights law in the digital era, alongside penetrating analyses of recent Court of Justice of the European Union case law on the impact of digitalization. Dealing as it does with an area of

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European law of particular complexity and rapidly growing importance, the anthology provides insights and knowledge about the ways in which digitalization is rapidly changing EU law. Are general principles of EU law as developed in an 'analogue world' sufficiently resilient to withstand the rapid

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and often disruptive developments taking place in the digital marketplace? The fresh look at the concept of 'general principles' taken by the various contributors helps to clarify the actual application in EU law in areas related to the ongoing digitalization of our society. It will be greatly appreciated by practitioners, policymakers

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and academics active in any of the many fields of law affected by the digital revolution.

Evolutionary science is critical to an understanding of integrated human biology and is increasingly recognised as a core discipline by medical and public health professionals. Advances in the field

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of genomics, epigenetics, developmental biology, and epidemiology have led to the growing realisation that incorporating evolutionary thinking is essential for medicine to achieve its full potential. This revised and updated second edition of the first comprehensive textbook of evolutionary medicine explains the

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principles of evolutionary biology from a medical perspective and focuses on how medicine and public health might utilise evolutionary thinking. It is written to be accessible to a broad range of readers, whether or not they have had formal exposure to evolutionary science. The general structure of the second edition

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remains unchanged, with the initial six chapters providing a summary of the evolutionary theory relevant to understanding human health and disease, using examples specifically relevant to medicine. The second part of the book describes the application of evolutionary principles to understanding particular

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aspects of human medicine: in addition to updated chapters on reproduction, metabolism, and behaviour, there is an expanded chapter on our coexistence with micro-organisms and an entirely new chapter on cancer. The two parts are bridged by a chapter that details pathways by which evolutionary processes affect

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disease risk and symptoms, and how hypotheses in evolutionary medicine can be tested. The final two chapters of the volume are considerably expanded; they illustrate the application of evolutionary biology to medicine and public health, and consider the ethical and societal issues of an evolutionary perspective. A number of

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new clinical examples and historical illustrations are included. This second edition of a novel and popular textbook provides an updated resource for doctors and other health professionals, medical students and biomedical scientists, as well as anthropologists interested in human health, to gain a better understanding of

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the evolutionary processes underlying human health and disease.

Investigates and sets out the common principles of social evolution operating across all taxa and levels of biological organisation.

Computational models are invaluable in understanding the complex effects of

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physical processes and environmental factors which interact to influence landform evolution of geologic time scales. This book provides a holistic guide to the construction of numerical models to explain the co-evolution of landforms, soil, vegetation and tectonics, and describes how the geomorphology observable today

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has been formed. It explains the science of the physical processes and the mechanics of how to solve them, providing a useful resource for graduates studying geomorphology and sedimentary and erosion processes. It also emphasises the methods for assessing the relative importance of different factors at field

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sites, enabling researchers to select the appropriate processes to model.

Integrating a discussion of the fundamental processes with mathematical formulations, it guides the reader in understanding which processes are important and why; and creates a framework through which to study the

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interaction of soils, vegetation and landforms over time.

Principles of Equity & Trusts (Aus) 2/e

Animal Diversity

REDEFINING SAPIENS

Integrated Molecular Evolution

Principles of Evolution: Systems, Species,
and the History of Life

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West-Eberhard is widely recognized as one of the most incisive thinkers in evolutionary biology. This book assesses all the evidence for our current understanding of the role of changes in body plan and development for the process of speciation. The process of

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evolution is systematically reassessed to integrate the insights coming from developmental genetics. Every serious student of evolution, and a substantial share of developmental biologists and geneticists, will need to take note of this contribution. The timing is clearly

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ripe for the synthesis that this work will help bring about.

Molecular evolution, phylogenetics, genomics, and other related topics are all critical to understanding evolutionary processes. All too frequently, however, they are treated

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separately in textbooks and courses, such that students fail to connect all of the concepts, principles, and nuances of the evolutionary processes. Integrated Molecular Evolution brings these related areas together in one volume, facilitating student comprehension of

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often difficult concepts. Incorporating the emerging fields of genomics and bioinformatics with traditional fields such as evolution, genetics, and molecular biology, this volume explores a myriad of topics, including Life on Earth and the possible origins of life

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The evolution of organisms on Earth and the history of the study of evolution
Basic structures of DNA, RNA, proteins, and other biological molecules, and the synthesis of each
Molecular biology and the evolution, structure, and function of ribosomes

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DNA replication and the various ways
in which chromosomes are separated
Ways in which DNA can be changed to
produce mutations, infectious causes of
mutation, and repair of DNA
Definitions, evolution, and the
importance of multigene families

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Phylogenetic analysis and how researchers use the raw sequence data to reconstruct portions of evolutionary processes Details of the genomes of a variety of organisms, from RNA viruses to eukaryotes, presented in order of complexity Each chapter ends

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with a summary of key points, forming an effective review and enabling students to isolate critical material. The series of topics and the masterful integration of these topics lead students to a full understanding of evolution and the component processes that have led

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to biological evolution on Earth. Focusing on the basic principles of mineral formation by organisms, this comprehensive volume explores questions that relate to a wide variety of fields, from biology and biochemistry, to paleontology, geology, and medical

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research. Preserved fossils are used to date geological deposits and archaeological artifacts. Materials scientists investigate mineralized tissues to determine the design principles used by organisms to form strong materials. Many medical problems are also

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associated with normal and pathological mineralization. Lowenstam, the pioneer researcher in biomineralization, and Weiner discuss the basic principles of mineral formation by organisms and compare various mineralization processes. Reference tables listing all

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known cases in which organisms form minerals are included.

A quick-in, quick-out Biology study aid updated to reflect advancements in Biology CliffsNotes Biology Quick Review, Second Edition, provides a clear, concise, easy-to-use review of

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biology basics, making it perfect for high school and college students, or anyone wanting to brush up on biology knowledge. It can even be used as a supplemental test-prep guide for the Praxis II Biology test for certification to teach biology at the high school

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level. Whether you're new to elements, atoms, and molecules or just want to refresh your understanding of the subject, this guide can help. It includes topics such as cellular respiration, photosynthesis, mitosis and cell reproduction, genetics, DNA, and plant

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and animal structures and functions.

This book is perfect for people looking for a quick, to-the-point review.

The book includes all the background material required to understand the principles underlying intelligence, as well as enough detailed information on

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intelligent robotics and simulated agents so readers can begin experiments and projects on their own. By the mid-1980s researchers from artificial intelligence, computer science, brain and cognitive science, and psychology realized that the idea of computers as

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intelligent machines was inappropriate. The brain does not run "programs"; it does something entirely different. But what? Evolutionary theory says that the brain has evolved not to do mathematical proofs but to control our behavior, to ensure our survival.

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Researchers now agree that intelligence always manifests itself in behavior—thus it is behavior that we must understand. An exciting new field has grown around the study of behavior-based intelligence, also known as embodied cognitive science, "new AI,"

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and "behavior-based AI." This book provides a systematic introduction to this new way of thinking. After discussing concepts and approaches such as subsumption architecture, Braitenberg vehicles, evolutionary robotics, artificial life, self-

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organization, and learning, the authors derive a set of principles and a coherent framework for the study of naturally and artificially intelligent systems, or autonomous agents. This framework is based on a synthetic methodology whose goal is understanding by

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designing and building. The book includes all the background material required to understand the principles underlying intelligence, as well as enough detailed information on intelligent robotics and simulated agents so readers can begin experiments and

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projects on their own. The reader is guided through a series of case studies that illustrate the design principles of embodied cognitive science.

Computational Approaches in
Comparative Genomics
The Molecular Landscape

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Darwin's Conjecture

Evolutionary Theory and Human
Nature

Principles, Concepts, and Assumptions

Principles of Evolution considers
evolution in the context of systems
biology, a contemporary approach

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for handling biological complexity. Evolution needs this systems perspective for three reasons. First, most activity in living organisms is driven by complex networks of proteins and this has direct implications, particularly for

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understanding evo-devo and for seeing how variation is initiated. Second, it provides the natural language for discussing phylogenetic trees. Third, evolutionary change involves events at levels ranging from the

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genome to the ecosystem and systems biology provides a context for integrating material of this complexity. Understanding evolution means, on the one hand, describing the history of life and, on the other, making sense of the

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principles that drove that history. The solution adopted here is to make the science of evolution the primary focus of the book and place the various parts of the history of life in the context of the research that unpicks it. This means that the

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history is widely distributed across the text. This concise textbook assumes that the reader has a fair amount of biological knowledge and gives equal weight to all the major themes of evolution: the fossil record, phylogenetics, evodevo,

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and speciation. Principles of Evolution will therefore be an interesting and thought-provoking read for honors-level undergraduates, and graduates working in the biological sciences. "Epigenetic Principles of Evolution

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is a postgenetic treatment of the problem of metazoan evolution. It presents a radically novel epigenetic theory of evolution describing epigenetic mechanisms of evolutionary changes as they arise in the process of individual

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development. In seven chapters of Part 1 (Epigenetic Basis of Metazoan Heredity, pp. 21-216) the author introduces the reader to the epigenetic system of heredity - a function of the integrated control system. Cabej describes the

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dominant role of the epigenetic system of heredity in the processes of reproductive functions (chapter 3), in gametogenesis and in the process of the deposition of parental cytoplasmic factors (=epigenetic information) in

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gametes (chapter 4). In chapter 5 the author shows how the epigenetic information deposited in gametes in the form of maternal cytoplasmic factors determines the early embryonic development from the zygote stage to the phylotypic

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stage. A detailed description of the control of the postphylogenetic stage of development, especially the formation of organs and organ systems, is presented in chapter 6 (p. 139-202). An outline of the main features of the epigenetic system of

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heredity and its relationship with the genetic system of heredity is provided in chapter 7 (203-216). Interactions between metazoan organisms and their environment, metazoan responses (especially behavioral responses) to changes

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in the environment and the ontogeny as a workshop of evolutionary change are dealt with in three chapters (8-10) of Part 2 (Neural-developmental premises of evolutionary adaptation, pp. 219-281). In Part 3 (chapters 11

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and 12, pp. 285-339) the author deals with the mechanisms of developmental plasticity, the so-called circumevolutionary phenomena, and reveals the essential similarity between the transgenerational developmental

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plasticity and evolutionary change. In Part 4, Epigenetics of Metazoan Evolution (p. 341-623), the author deals in details with evolution of the control system (chapter 13, pp. 341-377), developmental mechanisms of evolutionary

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change in evolutionary modifications (chapter 14, pp. 379-501), evolution by loss/vestigialization of organs (chapter 15, pp. 501-541), evolution by reverting to ancestral structures (chapter 16, pp. 543-569). A special

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chapter is devoted to the role of the neural crest, a uniquely vertebrate structure of neural origin, in evolution of de novo metazoan structures. Evolutionary convergences and their evolutionary-epigenetic implications

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are discussed in chapter 18. Part 5 (p.645-732) is devoted to description of epigenetic mechanisms as determinants of species formation in sympatry. For all the cases of evolution of structures and species formation

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described in the book, the author presents both the conventional neoDarwinian explanation and the epigenetic explanation making it possible for the reader to assess the relative explanatory power of the genetic and epigenetic

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explanations. The book was published in 2008 by Alpanet Publishing and contains 880 pages."--Amazon.

Principles of Evolution: Systems, Species, and the History of Life
Garland Science

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Sequence - Evolution - Function is an introduction to the computational approaches that play a critical role in the emerging new branch of biology known as functional genomics. The book provides the reader with an understanding of the

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principles and approaches of functional genomics and of the potential and limitations of computational and experimental approaches to genome analysis. Sequence - Evolution - Function should help bridge the "digital

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divide" between biologists and computer scientists, allowing biologists to better grasp the peculiarities of the emerging field of Genome Biology and to learn how to benefit from the enormous amount of sequence data available

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in the public databases. The book is non-technical with respect to the computer methods for genome analysis and discusses these methods from the user's viewpoint, without addressing mathematical and algorithmic details. Prior

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practical familiarity with the basic methods for sequence analysis is a major advantage, but a reader without such experience will be able to use the book as an introduction to these methods. This book is perfect for introductory level

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courses in computational methods
for comparative and functional
genomics.

Ebook: Biology

The Theory of Evolution

Cliffsnotes Biology Quick Review

Sequence — Evolution — Function

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Biological Principles and Processes
Evolution, the Logic of Biology
By focusing on the
cellular mechanisms that
underlie ontogeny,
phylogeny and regeneration
of complex physiologic

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traits, Evolution, the
Logic of Biology
demonstrates the use of
homeostasis, the
fundamental principle of
physiology and medicine,
as the unifying mechanism

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for evolution as all of biology. The homeostasis principle can be used to understand how environmental stressors have affected physiologic mechanisms to generate

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condition-specific novelty through cellular mechanisms. Evolution, the Logic of Biology allows the reader to understand the vertebrate life-cycle as an intergenerational

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continuum in support of effective, on-going environmental adaptation. By understanding the principles of physiology from their fundamental unicellular origins,

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culminating in modern-day metazoans, the reader as student, researcher or practitioner will be encouraged to think in terms of the prevention of disease, rather than in

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the treatment of disease as the eradication of symptoms. By tracing the ontogeny and phylogeny of this and other phenotypic homologies, one can perceive and understand

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how complex physiologic
traits have
mechanistically evolved
from their simpler
ancestral and
developmental origins as
cellular structures and

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functions, providing a logic of biology for the first time. Evolution, the Logic of Biology will be an invaluable resource for graduate students and researchers studying

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evolutionary development,
medicine and biology,
anthropology, comparative
and developmental biology,
genetics and genomics, and
physiology.

Darwin's nineteenth-

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century writings laid the foundations for modern studies of evolution, and theoretical developments in the mid-twentieth century fostered the Modern Synthesis. Since

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that time, a great deal of new biological knowledge has been generated, including details of the genetic code, lateral gene transfer, and developmental constraints.

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Our improved understanding of these and many other phenomena have been working their way into evolutionary theory, changing it and improving its correspondence with

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evolution in nature. And while the study of evolution is thriving both as a basic science to understand the world and in its applications in agriculture, medicine, and

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public health, the broad scope of evolution—operating across genes, whole organisms, clades, and ecosystems—presents a significant challenge for

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researchers seeking to integrate abundant new data and content into a general theory of evolution. This book gives us that framework and synthesis for the twenty-

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first century. The Theory of Evolution presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous

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fields within evolutionary biology, ranging from biogeography to multilevel selection, speciation, and macroevolutionary theory. By presenting current syntheses of evolution's

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theoretical foundations and their growth in light of new datasets and analyses, this collection will enhance future research and understanding.

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CliffsNotes Biology Quick Review is what you'd expect—and want—from CliffsNotes: a no-nonsense quick review of biology that high school and Biology 101 students can

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use to review biology.
Also good for teachers and
test-takers needing to
refresh their
understanding of biology.
Quick in. Quick out.
If you want to know

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whether evolution is a science, how life began, what Charles Darwin really said about evolution, why a fungus is more closely related to humans than to a plant, how experiments

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in evolution can be carried out, why birds are flying dinosaurs, how we manipulate the evolution of other species, and if you want a clear treatment of the processes that

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result in evolution, then this is the book for you! Written for those with a minimal science background, Evolution: Principles and Processes provides a concise

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introduction of evolutionary topics for the one-term course. Using an engaging writing style and a wealth of full-color illustrations, Hall covers all topics from the origin

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of universe, Earth, the origin of life, and on to how humans influence the evolution of other species. He brings together the principles and processes that explain

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evolutionary change and discusses the patterns of life that have resulted from the operation of evolution over the past 3.5 billion years. This overview, coupled with

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numerous case studies and examples, helps readers understand and truly appreciate the origin and diversity of life.

Today many school students are shielded from one of

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the most important
concepts in modern
science: evolution. In
engaging and
conversational style,
Teaching About Evolution
and the Nature of Science

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provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and

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educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the

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question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions

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to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature

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of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to

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introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume:

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Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science

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differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions

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about evolution. Teaching
About Evolution and the
Nature of Science builds
on the 1996 National
Science Education
Standards released by the
National Research

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Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book

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brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school

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administrators, and interested members of the community.

Principles of Soilscape
and Landscape Evolution
On Biomineralization:
INTRODUCTION; CHAPTER 2

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MINERALS AND
MACROMOLECULES; CHAPTER 3
BIOMINERALIZATION
PROCESSES; CHAPTER 4
PROTOCTISTA; CHAPTER 5
CNIDARIA; CHAPTER 6
MOLLUSCA; CHAPTER 7

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ARTHROPODA; CHAPTER 8
ECHINODERMATA; CHAPTER 9
CHORDATA; CHAPTER 10 SOME
NONSKELETAL FUNCTIONS IN
BIOMINERALIZATION; CHAPTER
11 ENVIRONMENTAL
INFLUENCES ON

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BIOMINERALIZATION; CHAPTER
12 EVOLUTION OF
BIOMINERALIZATION;
REFERENCES; INDEX
Principles and Processes
MCAT Biology Multiple
Choice Questions and

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Answers (MCQs)

Understanding Intelligence

The current edition of this
book deals with the "17 Years
of NEET Chapter-wise and
Topic-wise Solved Papers
BIOLOGY (2005-2022)" with

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Value Added Notes contains the past year papers of NEET; 2021 to 2005 distributed in 35 Chapters. The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100%

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convenient to Class 11 and 12 students. Another new feature added in this Biology edition is the classification of all Chapters in Botany and Zoology as per NEET 2023 The fully solved CBSE Mains

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papers of 2011 and 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. The book contains units as: Unit 1: Diversity in Living World Unit 2: Animal Kingdom

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and Evolution; Unit 3: Cell
Theory and Human Genetics
Unit 4: Plant Morphology and
Reproduction Unit 5: Human
Physiology Unit 6: Health and
Disease Unit 7: Plant
Physiology and Ecology Unit

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8: Body Forms and Functions

This book also includes 5

Mock Tests which will help

you to understand the pattern.

This book will be of great help

in bringing you understanding

the concept of biology and

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applicability at NEET; AIIMS and other medical entrance examinations.

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critical role in evolution, from microbes to human societies. Inheriting a tendency to cooperate and self-sacrifice on behalf of others may be as beneficial to a population's survival as the self-preserving

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instincts of individuals.

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"Epigenetic Principles of
Evolution is a postgenetic

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treatment of the problem of metazoan evolution. It presents a radically novel epigenetic theory of evolution describing epigenetic mechanisms of evolutionary changes as they arise in the

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process of individual development. In seven chapters of Part 1 (Epigenetic Basis of Metazoan Heredity, pp. 21-216) the author introduces the reader to the epigenetic system of heredity -

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a function of the integrated control system. Cabej describes the dominant role of the epigenetic system of heredity in the processes of reproductive functions (chapter 3), in gametogenesis

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and in the process of the deposition of parental cytoplasmic factors (=epigenetic information) in gametes (chapter 4). In chapter 5 the author shows how the epigenetic information

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deposited in gametes in the form of maternal cytoplasmic factors determines the early embryonic development from the zygote stage to the phylotypic stage. A detailed description of the control of

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the postphylogenetic stage of development, especially the formation of organs and organ systems, is presented in chapter 6 (p. 139-202). An outline of the main features of the epigenetic system of

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heredity and its relationship with the genetic system of heredity is provided in chapter 7 (203-216). Interactions between metazoan organisms and their environment, metazoan responses

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(especially behavioral responses) to changes in the environment and the ontogeny as a workshop of evolutionary change are dealt with in three chapters (8-10) of Part 2 (Neural-developmental

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premises of evolutionary adaptation, pp. 219-281). In Part 3 (chapters 11 and 12, pp. 285-339) the author deals with the mechanisms of developmental plasticity, the so-called circumevolutionary

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phenomena, and reveals the essential similarity between the transgenerational developmental plasticity and evolutionary change. In Part 4, Epigenetics of Metazoan Evolution (pp. 341-623), the

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author deals in details with evolution of the control system (chapter 13, pp. 341-377), developmental mechanisms of evolutionary change in evolutionary modifications (chapter 14, pp.

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379-501), evolution by loss/vestigialization of organs (chapter 15, pp. 501-541), evolution by reverting to ancestral structures (chapter 16, pp. 543-569). A special chapter is devoted to the role

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of the neural crest, a uniquely vertebrate structure of neural origin, in evolution of de novo metazoan structures.

Evolutionary convergences and their evolutionary-epigenetic implications are

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discussed in chapter 18. Part 5 (pp.645-732) is devoted to description of epigenetic mechanisms as determinants of species formation in sympatry. For all the cases of evolution of structures and

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species formation described in the book, the author presents both the conventional neoDarwinian explanation and the epigenetic explanation making it possible for the reader to assess the relative

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explanatory power of the genetic and epigenetic explanations. The book was published in 2008 by Albanet Publishing and contains 880 pages." --Amazon.

This volume presents the

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latest advances in research into evolution, focusing on the molecular bases for evolutionary change. Topics include the appearance of the first genetic material, the origins of cellular life, and

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Evolution

Evolution, Games, and God

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contributions of the many naturalists who visited the islands over the centuries and the stories behind their discoveries. An extensive annotated bibliography and a list of audio-visual materials will help readers locate additional sources of information.

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From Thomas Hobbes' fear of the power of laughter to the compulsory, packaged "fun" of the contemporary mass media, Billig takes the reader on a stimulating tour of the strange world of humour. Both a significant work of scholarship

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and a novel contribution to the understanding of the humorous, this is a seriously engaging book' - David Inglis, University of Aberdeen This delightful book tackles the prevailing assumption that laughter and humour are inherently good. In developing a

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critique of humour the author proposes a social theory that places humour - in the form of ridicule - as central to social life. Billig argues that all cultures use ridicule as a disciplinary means to uphold norms of conduct and conventions of meaning.

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Historically, theories of humour reflect wider visions of politics, morality and aesthetics. For example, Bergson argued that humour contains an element of cruelty while Freud suggested that we deceive ourselves about the true nature of our laughter.

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Billig discusses these and other theories, while using the topic of humour to throw light on the perennial social problems of regulation, control and emancipation.

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THE STUDY OF THE BIOSPHERE

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The term 'biosphere' first appeared in the works of the French biologist L.-B. Lamarck and the Austrian geologist E. Suess in the 19th century. In the 20th century, the study of the biosphere attracted considerable attention, largely due to the

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research of V. I. Vernadsky (1863-1945). The results of Vernadsky's investigations have appeared in a number of publications, including the monograph *The Biosphere* published in 1926. This work consists of two parts, *The Biosphere in Cosmos'* and *The*

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Zone of Life', written in a form of speculation and reflection that is rarely used in modern studies.

This work concerns the distinguishing properties of the space occupied by organisms and the exceptional importance of the activities of these organisms in

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the formation of their environment. In this and subsequent studies, Vernadsky has laid the foundations of the science of the biosphere, which today plays an important role in th.c many branches of science concerned with the Earth. Several

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terms have been suggested for the science of the biosphere, including global ecology (a discipline studying the global ecological system, whose meaning is close to that of the biosphere). One of the most prominent predecessors of

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Vernadsky was his teacher V. This work is an invitation and guide for young people to bring the realm of Heaven to earth. As children discover their identity through the revelation of the Father's love, they are released to fulfill their Royal Mission: to

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demonstrate the Kingdom of God by living a life of miracles. Each chapter explains and identifies the inheritance that God's sons and daughters possess, such as the Father's love, the anointing and indwelling of the Holy Spirit, faith, prayer, and the keys of

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power and authority. This book is not only a companion for the "journey", but also provides a meeting place for children to encounter God's presence that will transform their hearts and lives.

The Evolution of the Biosphere

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Here Comes Heaven!
Cognitive Development and
Individual Differences
Evolution
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Key (Biology Quick Study Guides
& Terminology Notes about
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evolutionary theory and
how these apply to
ecological, molecular
genetic, paleontological
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approaches to important
questions in the field,

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interpretations;
integration of genetic and
paleoanthropological
approaches.

...It is possible and
reasonable to challenge
even the name of our

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Species, still called Sapiens?... and to change this generic name which was done by the Carol Linnaeus with about 240 years ago?... We consider that it is necessary a

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redefining of Species
Sapiens through another
refreshment in renaming
the Species Sapiens as
HOMO BIPAEDISMUS - KULTUR
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version)... ...Let's see and
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groups has been completely revised for this edition. The functions of organisms, both individually and in communities, are studied in this introduction to

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A Kid's Guide to God's Supernatural Power

What does game theory tell us about rational behavior? Is there such a thing as rational behavior, and if so, is it of any use to us? In this fascinating book, renowned Hungarian economist Laszlo

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Mero shows how game theory provides insight into such aspects of human psychology as altruism, competition, and politics, as well as its relevance to disparate fields such as physics and evolutionary biology. This ideal guide shows us how mathematics can

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Teaching About Evolution and the
Nature of Science