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Summary Random change in allele

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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

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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.

Evolution: Components and Mechanisms introduces the many recent discoveries and insights that have added to the discipline of organic evolution, and combines them with the key topics needed to gain a fundamental understanding of the mechanisms of evolution. Each chapter covers an important topic or factor pertinent to a modern understanding of evolutionary theory,

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allowing easy access to particular topics for either study or review. Many chapters are cross-referenced. Modern evolutionary theory has expanded significantly within only the past two to three decades. In recent times the definition of a gene has evolved, the definition of organic evolution itself is in need of some modification, the number of known mechanisms of evolutionary change has increased dramatically, and the emphasis placed on opportunity and contingency has increased. This book synthesizes these changes and presents many of the novel topics in evolutionary theory in an accessible and thorough format. This book is an ideal, up-to-date resource for biologists, geneticists, evolutionary biologists, developmental biologists, and researchers in, as well as students

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and academics in these areas and professional scientists in many subfields of biology. Discusses many of the mechanisms responsible for evolutionary change Includes an appendix that provides a brief synopsis of these mechanisms with most discussed in greater detail in respective chapters Aids readers in their organization and understanding of the material by addressing the basic concepts and topics surrounding organic evolution Covers some topics not typically addressed, such as opportunity, contingency, symbiosis, and progress

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Ecosystem health: human impacts.

This impressive author team brings the wealth of advances in conservation genetics into the new edition of this introductory text, including new chapters on population genomics and genetic issues in introduced and invasive species. They continue the strong learning features for students - main points in the margin, chapter summaries, vital support with the mathematics, and further reading - and now guide the reader to software and databases. Many new references reflect the expansion of this field. With examples from mammals, birds,...

A major new textbook. A concise and clear introduction to evolutionary biology. This book introduces what is



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essential and exciting in evolutionary biology. It covers whole field and emphasises the important concepts for the student. Care has been taken to express complex and stimulating ideas in simple language, while the frequent examples and running summaries make reading fun. Its logical structure means that it can be read straight through, one chapter per sitting.

- \* Concise, clear, and states what is important
- \* Concentrates on the central concepts and illustrates them with telling examples
- \* Running summaries in the margins make navigation easy
- \* Suitable for a one-year or one-semester course in evolution
- \* Summaries at chapter ends
- \* Each chapter's links to neighbouring chapters are explained

Evolution: an introduction takes a fresh approach to classical topics such

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as population genetics and natural selection, and gives an overview of recent advances in hot areas such as sexual selection, genetic conflict, life history evolution, and phenotypic plasticity. Detail of contents The Prologue is unique and uniquely motivating. It makes four central points about evolution in the form of four case studies told as brief stories. Chapters 1-3 describe natural selection and the essential difference between adaptive and neutral evolution with unmatched clarity and simplicity. Chapter 4 emphasizes the essential message of population genetics without burdening the students with any of the unessential details and places unique emphasis on the role of the genetic system in constraining the response to selection. Chapter 6 is not found in any other

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evolution textbook, although there are a number of recent books on the subject, and it therefore provides an introductory overview of a topic that has been the object of much recent interest and promises to generate much more insight: the expression of genetic variation analysed with the concept of reaction norms. Chapters 7-9 cover sex, life histories, and sexual selection in greater depth than they are dealt with in any other introductory textbook but without introducing advanced technical language and analysis. Chapters 6-9 thus give unprecedented coverage to phenotypic evolution in an introductory text. Chapter 10 on multilevel selection and genetic conflict is unique in introductory textbooks. Rolf Hoekstra has achieved a wonder of clarity and concision on

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the essentials of this exciting topic. Chapters 11 and 12 on speciation and systematics are, by comparison, pretty standard, but they continue the policy of clarity and concision with the focus on essentials. Chapter 13 on the history of the planet and of life is a completely new approach unabashedly designed to motivate students to think about deep time, geology, paleontology, and fossils. Chapter 14 on the major transitions in evolution is also not found in any other introductory textbook. It documents the conceptual issues raised in the history of life briefly and in a form that will stimulate the gifted. Chapter 15 profiles the chief insights made possible by molecular systematics in the form of four case studies ranging from deep time to recent European history. It has

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standard content but unique structure. A strong point is the way mitochondrial Eve is contrasted with transpecies polymorphism to show students how to think about inferences with molecular evidence. Chapter 16 briefly presents the principle comparative methods and the kinds of insights that can be achieved with them. It is not unique - Ridley covers this ground well - but the examples used are new and the essential features of the methods - including potential pitfalls - are quite clearly described. Chapter 17 places evolutionary thought into the context both of the natural sciences and of society at large.

Floral biology, floral function, sexual systems, diversification.

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Research in modern experimental and theoretical population genetics has been strengthened by advances in molecular techniques for the analysis of genetic variability. The evolutionary relationships of organisms may be investigated by comparing DNA sequences. This book covers chapters on population genetics, DNA polymorphism, genetic homeostasis, an

This volume is based on presentations by the world-renowned investigators who gathered at the 74th annual Cold Spring Harbor Symposium on Quantitative Biology to celebrate the 150th anniversary of the publication of Charles Darwin's *On the Origin of Species*. It reviews the latest advances in research into evolution, focusing on the molecular bases for evolutionary

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change. The topics covered include the appearance of the first genetic material, the origins of cellular life, evolution and development, selection and adaptation, and genome evolution. Human origins, cognition, and cultural evolution are also covered, along with social interactions. The line-up of speakers comprised a stellar list of preeminent scientists and thinkers such as the zoologist and prolific author E. O. Wilson (Harvard University); Jack W. Szostak (Harvard Medical School), a 2009 Nobel Prize winner who studies the chemistry of life's origins; and Nobel Prize winner and former president of HHMI Thomas Cech (Colorado Institute for Molecular Biotechnology), to name just a few.

This volume captures the state-of-the-

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art in the study of insect-plant interactions, and marks the transformation of the field into evolutionary biology. The contributors present integrative reviews of uniformly high quality that will inform and inspire generations of academic and applied biologists. Their presentation together provides an invaluable synthesis of perspectives that is rare in any discipline.--Brian D. Farrell, Professor of Organismic and Evolutionary Biology, Harvard University

Tilmon has assembled a truly wonderful and rich volume, with contributions from the lion's share of fine minds in evolution and ecology of herbivorous insects. The topics comprise a fascinating and deep coverage of what has been discovered in the prolific recent decades of research with insects on plants.



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Fascinating chapters provide deep analyses of some of the most interesting research on these interactions. From insect plant chemistry, behavior, and host shifting to phylogenetics, co-evolution, life-history evolution, and invasive plant-insect interaction, one is hard pressed to name a substantial topic not included. This volume will launch a hundred graduate seminars and find itself on the shelf of everyone who is anyone working in this rich landscape of disciplines.--Donald R. Strong, Professor of Evolution and Ecology, University of California, Davis Seldom have so many excellent authors been brought together to write so many good chapters on so many important topics in organismic evolutionary biology. Tom Wood, always unassuming and inspired by living

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nature, would have been amazed and pleased by this tribute.--Mary Jane West-Eberhard, Smithsonian Tropical Research Institute

Ecologists are aware of the importance of natural dynamics in ecosystems. Historically, the focus has been on the development in succession of equilibrium communities, which has generated an understanding of the composition and functioning of ecosystems. Recently, many have focused on the processes of disturbances and the evolutionary significance of such events. This shifted emphasis has inspired studies in diverse systems. The phrase "patch dynamics" (Thompson, 1978) describes their common focus. The Ecology of Natural Disturbance and Patch Dynamics brings together the

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findings and ideas of those studying varied systems, presenting a synthesis of diverse individual contributions.

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