

Evolution 3rd Edition Futuyma

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Casanova Diane Schmidt Ray Lester*

the book examines basic areas of marine research subjects of special and topical

importance and new areas as they arise this series is consistently among the highest ranking in terms of impact factor in the marine biology category of the citation indices compiled by the institute of scientific information it is an essential reference for research workers and students in all fields of marine science and the series volumes find a place in the libraries of universities marine laboratories research institutes and government departments

in its scope and emphases evolution is a readily recognized descendant of the author s previous textbook evolutionary biology however it is much shorter and is exclusively directed toward an undergraduate audience

words are our tools and as a minimum we should use clean tools we should know what we mean and what we do not and we must forearm ourselves against the traps that language sets us the need for precise terminology austin 1957 7 8 it follows that for effective and efficient communication people should have or at least understand th

the first comprehensive synthesis on development and evolution it applies to all aspects of development at all levels of organization and in all organisms taking advantage of modern findings on behavior genetics endocrinology molecular biology evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change this book solves key problems that have impeded a definitive synthesis in the past it uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change in this book development includes not only embryology and the ontogeny of morphology sometimes portrayed inadequately as governed by regulatory genes but also behavioral development and physiological adaptation where plasticity is mediated by genetically complex mechanisms like hormones and learning the book shows how the universal qualities of phenotypes modular organization and plasticity facilitate both integration and change here you will learn why it is wrong to describe organisms as genetically programmed why environmental induction is likely to be more important in evolution than random mutation and why it is crucial to consider both selection and developmental mechanism in explanations of adaptive evolution this book satisfies the need for a truly general book on development plasticity and evolution that applies to living organisms in all of their life stages and environments using an immense compendium of examples on many kinds of organisms from viruses and bacteria to higher plants and animals it shows how the phenotype is reorganized during

evolution to produce novelties and how alternative phenotypes occupy a pivotal role as a phase of evolution that fosters diversification and speeds change the arguments of this book call for a new view of the major themes of evolutionary biology as shown in chapters on gradualism homology environmental induction speciation radiation macroevolution punctuation and the maintenance of sex no other treatment of development and evolution since darwin s offers such a comprehensive and critical discussion of the relevant issues developmental plasticity and evolution is designed for biologists interested in the development and evolution of behavior life history patterns ecology physiology morphology and speciation it will also appeal to evolutionary paleontologists anthropologists psychologists and teachers of general biology

this text unifies conceptual and empirical advances in evolutionary ecology and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts the book is divided into five sections an overview of the major topics in evolutionary biology for ecologists sections on life histories behavior coevolution and adaptation to anthropogenic change midwest

emerging infections is the first volume of the new biomedical research reports series which will provide annual updates on hot topics of interest to a broad spectrum of the biomedical research community this book provides state of the art reviews of new and reemerging bacterial viral and parasitic infections their life cycles host defense evasion strategies and clinical features it includes the history of infectious disease outbreaks population and evolutionary biology of human pathogens and current epidemiological models that describe how ecological and demographic changes produce new epidemics provides reviews on hot topics of interest to the biomedical research community editor and contributors are renowned international experts covers the major established pathogens as well as the new and sensational such as mad cow disease hantavirus pulmonary syndrome pathogenic e coli and flesh eating bacteria

the arthur m sackler colloquia of the national academy of sciences address scientific topics of broad and current interest cutting across the boundaries of traditional disciplines each year four or five such colloquia are scheduled typically two days in length and international in scope colloquia are organized by a member of the academy often with the assistance of an organizing committee and feature presentations by leading scientists in the field and discussions with a hundred or more researchers with an interest in the topic colloquia presentations are recorded and posted on the national

academy of sciences sackler colloquia website and published on cd rom these colloquia are made possible by a generous gift from mrs jill sackler in memory of her husband arthur m sackler

covering more than 50 central terms concepts the entries in this reference offer an overview of all that is embraced by the subdiscipline of evolutionary developmental biology providing core insights ideas that show how embryonic development relates to life history evolution adaptation

defending evolution is a novel handbook that explains why so many secondary and college students reject evolution and are antagonistic toward its teaching defending evolution helps science instructors better understand their students creationist beliefs including those of intelligent design advocates and the bearing those beliefs have on learning evolution the book provides instructors with a variety of concise pragmatic suggestions to help lessen students anxieties about evolution and to facilitate teaching

draws on the perspectives of sixty eminent scientists to discuss what is currently understood about the functioning of the planet as it relates to massive changes in the environment in an extensively illustrated reference that features such sections as evolution animal behavior and global warming

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our everyday view of the world may not necessarily be the most comprehensive one in this regard neuropathologists should temper opinions based on a limited representation of reality microscopy freezes in time a two dimensional representation of a minute histological process one must acquire knowledge of the physiology of the lesion before reaching a multidimensional diagnosis in the case of mental disorders the modular organisation of the cortex may offer some clues to underlying aetiology it is tissue rather than individual cells that provides for the phenomena of perceptual binding and gamma frequencies it is the continuous re entry of excitation into neuronal networks that provides for selective attention the basis for language and its semantic content resides in the conjoint activation of topographically diverse brain regions this book is designed to focus on the lowest hierarchical element within the modular organisation of the brain the cell minicolumn the minicolumn is a self contained ecosystem of neurons and their connections that repeats itself throughout the extent of the neocortex although a few neuroanatomists at the turn of the century called attention to the vertical arrangement of the cortex vernon mountcastle provided physiological proof in the 1950 s for its existence and its role in perception

part of the reference sources in science and technology series this bibliography of

nearly 1 000 annotated entries covers various aspects of plant biology organised by topic this book includes various topics from plant physiology to genetics and biotechnology and is useful to botanists

the new walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort for those looking for a selective and evaluative reference resource that really delivers on its promise look no further in addition to print sources the new walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors but rather than supplying a list of all available known resources as a web search engine might the new walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful with an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas as a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature this ensures that the new walford is clear easy to use and intuitive publisher

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