



DIVERGENCE WITH **GENETIC EXCHANGE**

MICHAEL L. ARNOLD

Divergence Genetic Exchange Michael Arnold

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Divergence with Genetic Exchange Michael Lynn Arnold, 2016 This book is an investigation into processes associated with evolutionary divergence and diversification focussing on the role played by the exchange of genes between divergent lineages

Evolution through Genetic Exchange Michael L Arnold, 2006-07-27 Even before the publication of Darwin's *Origin of Species* the perception of evolutionary change has been a tree like pattern of diversification with divergent branches spreading further and further from the trunk In the only illustration of Darwin's treatise branches large and small never reconnect However it is now evident that this view does not adequately encompass the richness of evolutionary pattern and process Instead the evolution of species from microbes to mammals builds like a web that crosses and re crosses through genetic exchange even as it grows outward from a point of origin Some of the avenues for genetic exchange for example introgression through sexual recombination versus lateral gene transfer mediated by transposable elements are based on definably different molecular mechanisms However even such widely different genetic processes may result in similar effects on adaptations either new or transferred genome evolution population genetics and the evolutionary ecological trajectory of organisms For example the evolution of novel adaptations resulting from lateral gene transfer leading to the flea borne deadly causative agent of plague from a rarely fatal orally transmitted bacterial species is quite similar to the adaptations accrued from natural hybridization between annual sunflower species resulting in the formation of several new species Thus more and more data indicate that evolution has resulted in lineages consisting of mosaics of genes derived from different ancestors It is therefore becoming increasingly clear that the tree is an inadequate metaphor of evolutionary change In this book Arnold promotes the web of life metaphor as a more appropriate representation of evolutionary change in all lifeforms This research level text is suitable for senior undergraduate and graduate level students taking related courses in departments of genetics ecology and evolution It will also be of relevance and use to professional evolutionary biologists and systematists seeking a comprehensive and authoritative overview of this rapidly expanding field

Reticulate Evolution Nathalie Gontier, 2015-07-09 Written for non experts this volume introduces the mechanisms that underlie reticulate evolution Chapters are either accompanied with glossaries that explain new terminology or timelines that position pioneering scholars and their major discoveries in their historical contexts The contributing authors outline the history and original context of discovery of symbiosis symbiogenesis lateral gene transfer hybridization or divergence with gene flow and infectious heredity By applying key insights from the areas of molecular phylo genetics microbiology virology ecology systematics immunology epidemiology and computational science they demonstrate how reticulate evolution impacts successful survival fitness and speciation Reticulate evolution brings forth a challenge to the standard Neo Darwinian framework which defines life as the outcome of bifurcation and ramification patterns brought forth by the vertical mechanism of natural selection Reticulate evolution puts forward a pattern in the tree of life that is characterized by

horizontal mergings and lineage crossings induced by symbiosis symbiogenesis lateral gene transfer hybridization or divergence with gene flow and infective heredity making the tree of life look more like a web of life On an epistemological level the various means by which hereditary material can be transferred horizontally challenges our classic notions of units and levels of evolution fitness modes of transmission linearity communities and biological individuality The case studies presented examine topics including the origin of the eukaryotic cell and its organelles through symbiogenesis the origin of algae through primary and secondary symbiosis and dinoflagellates through tertiary symbiosis the superorganism and holobiont as units of evolution how endosymbiosis induces speciation in multicellular life forms transferrable and non transferrable plasmids and how they symbiotically interact with their host the means by which pro and eukaryotic organisms transfer genes laterally bacterial transformation transduction and conjugation as well as transposons and other mobile genetic elements hybridization and divergence with gene flow in sexually reproducing individuals current human microbiome and virome studies that impact our knowledge concerning the evolution of organismal health and acquired immunity and how symbiosis and symbiogenesis can be modelled in computational evolution

Evolutionary Theory Niles Eldredge, Telmo Pievani, Emanuele Serrelli, Ilya Tëmkin, 2016-09-23 The natural world is infinitely complex and hierarchically structured with smaller units forming the components of progressively larger systems molecules make up cells cells comprise tissues and organs that are in turn parts of individual organisms which are united into populations and integrated into yet more encompassing ecosystems In the face of such awe inspiring complexity there is a need for a comprehensive non reductionist evolutionary theory Having emerged at the crossroads of paleobiology genetics and developmental biology the hierarchical approach to evolution provides a unifying perspective on the natural world and offers an operational framework for scientists seeking to understand the way complex biological systems work and evolve Coedited by one of the founders of hierarchy theory and featuring a diverse and renowned group of contributors this volume provides an integrated comprehensive cutting edge introduction to the hierarchy theory of evolution From sweeping historical reviews to philosophical pieces theoretical essays and strictly empirical chapters it reveals hierarchy theory as a vibrant field of scientific enterprise that holds promise for unification across the life sciences and offers new venues of empirical and theoretical research Stretching from molecules to the biosphere hierarchy theory aims to provide an all encompassing understanding of evolution and with this first collection devoted entirely to the concept will help make transparent the fundamental patterns that propel living systems

Ecology and Evolution of Poeciliid Fishes Jonathan P. Evans, Andrea Pilastro, Ingo Schlupp, 2011-09-26 The history of biology is populated by numerous model species or organisms But few vertebrate groups have aided evolutionary and ecological research more than the live bearing fishes of the family Poeciliidae Found throughout tropical and subtropical waters poeciliids exhibit a fascinating variety of reproductive specializations including viviparity matrotrophy unisexual reproduction and alternative mating strategies making them ideal models for research on patterns and processes in ecology

behavior and evolution Ecology and Evolution of Poeciliid Fishes is a much needed overview of the scientific potential and understanding of these live bearing fishes Chapters by leading researchers take up a wide range of topics including the evolution of unisexual reproduction life in extreme environments life history evolution and genetics Designed to provide a single and highly approachable reference Ecology and Evolution of Poeciliid Fishes will appeal to students and specialists interested in all aspects of evolutionary ecology Standing between Life and Extinction David L. Propst,Jack E. Williams,Kevin R. Bestgen,Christopher W. Hoagstrom,2021-02-15 North American deserts lands of little water have long been home to a surprising diversity of aquatic life from fish to insects and mollusks With European settlement however water extraction resource exploitation and invasive species set many of these native aquatic species on downward spirals In this book conservationists dedicated to these creatures document the history of their work the techniques and philosophies that inform it and the challenges and opportunities of the future A precursor to this book Battle Against Extinction laid out the scope of the problem and related conservation activities through the late 1980s Since then many nascent conservation programs have matured and researchers have developed new technologies improved and refined methods and greatly expanded our knowledge of the myriad influences on the ecology and dynamics of these species Standing between Life and Extinction brings the story up to date While the future for some species is more secure than thirty years ago others are less fortunate Calling attention not only to iconic species like the razorback sucker Gila trout and Devils Hole pupfish but also to other fishes and obscure and fascinating invertebrates inhabiting intermittent aquatic habitats this book explores the scientific social and political challenges of preserving these aquatic species and their habitats amid an increasingly charged political discourse and in desert regions characterized by a growing human population and rapidly changing climate

Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.),2004 *The American Naturalist* ,1994 **Speciation in Plants and Animals** Richard J. Abbott,Steve Trewick,Trevor W. Robbins,Barry J. Everitt,Michael G. Ritchie,Robert H. Cowie,David J. Nutt,Peter M. Hollingsworth,2008

Comprehensive Dissertation Index, 1861-1972: Biological sciences: biology and zoology Xerox University Microfilms,1973 American Doctoral Dissertations ,1975 **Geographic Variation and Systematics of Salamanders of the Genus *Dicamptodon* Strauch (*Ambystomatidae*)** Ann E. Pace,Arnold G. Kluge,Emmet Thurman Hooper,Robert B. Payne,Ronald A. Nussbaum,Christopher J Risley,Michael D. Carleton,1974 *Canadian Journal of Zoology* ,1990

American Journal of Botany ,2000 **Dissertation Abstracts International** ,2000 **Comprehensive Dissertation Index** ,1984 *Annals of the Carnegie Museum* ,2013 **Genome Research** ,2008 **The Zoological Record** ,2002 **Biologia** ,1998

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