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Molecular Evolution: Towards the Origin of Metazoa



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Molecular Evolution Towards The Origin Of Metazoa

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Molecular Evolution Towards The Origin Of Metazoa:

Molecular Evolution: Towards the Origin of Metazoa Werner E.G. Müller, 2012-12-06 Recently new genes and their proteins that revealed striking new insights into the early evolution of multicellular animals have been identified and characterized from members of the lowest metazoan phylum the porifera sponges The unexpected result was that the sequences obtained from sponge displayed high similarity to those found in higher metazoa in consequence it was concluded that during the transition from protozoa to metazoa the major structural and regulatory proteins evolved only once The data gathered are now powerful arguments to establish monophyly of metazoa in addition new insights on the evolutionary diversification of metazoa were obtained

On the Origin of Autonomy Bernd Rosslenbroich, 2014-04-15 This volume describes features of autonomy and integrates them into the recent discussion of factors in evolution In recent years ideas about major transitions in evolution are undergoing a revolutionary change They include questions about the origin of evolutionary innovation their genetic and epigenetic background the role of the phenotype and of changes in ontogenetic pathways In the present book it is argued that it is likewise necessary to question the properties of these innovations and what was qualitatively generated during the macroevolutionary transitions The author states that a recurring central aspect of macroevolutionary innovations is an increase in individual organismal autonomy whereby it is emancipated from the environment with changes in its capacity for flexibility self regulation and self control of behavior The first chapters define the concept of autonomy and examine its history and its epistemological context Later chapters demonstrate how changes in autonomy took place during the major evolutionary transitions and investigate the generation of organs and physiological systems They synthesize material from various disciplines including zoology comparative physiology morphology molecular biology neurobiology and ethology It is argued that the concept is also relevant for understanding the relation of the biological evolution of man to his cultural abilities Finally the relation of autonomy to adaptation niche construction phenotypic plasticity and other factors and patterns in evolution is discussed The text has a clear perspective from the context of systems biology arguing that the generation of biological autonomy must be interpreted within an integrative systems approach

International Review of Cytology Kwang W. Jeon, 2004-08-28 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research

Advances in Sponge Science: Physiology, Chemical and Microbial Diversity, Biotechnology Mikel A. Becerro, 2012-07-30 The authors have intended to make the forefront of sponge research easily accessible to the nonspecialist illustrating the state of the art of the field and presenting current controversial issues For the specialist we wanted this monograph to be a handy valuable update on the most recent advances in sponge science p

x *The Evolution of Organ Systems* Andreas Schmidt-Rhaesa, 2007-08-30 Although there are several books on the phylogenetic relationships of animals this is the first to focus on the consequences of such relationships for the evolution of organs themselves It provides a summary of evolutionary hypotheses for each of the major organ systems describing alternative theories in those cases of continuing controversy *Epigenetics and Chromatin* Philippe Jeanteur, 2008-09-10 Epigenetics refers to heritable patterns of gene expression which do not depend on alterations of genomic DNA sequence This book provides a state of the art account of a few selected hot spots by scientists at the edge in this extremely active field It puts special emphasis on two main streams of research One is the role of post translational modifications of proteins mostly histones on chromatin structure and accessibility The other one deals with parental genomic imprinting a process which allows to express a few selected genes from only one of the parental allele while extinguishing the other **Biology of Aging** Alvaro Macieira-Coelho, 2012-12-06 The survival of the human species has improved significantly in modern times During the last century the mean survival of human populations in developed countries has increased more than during the preceding 5000 years This improvement in survival was accompanied by an increase in the number of active years In other words the increase in mean life span was accompanied by an increase in health span This is now accentuated by progress in medicine reducing the impact of physiologic events such as menopause and of patho logical processes such as atherosclerosis Up to now research on aging whether theoretical or experimental has not contributed to improvement in human survival Actually there is a striking contrast between these significant modifications in survival and the present knowledge of the mechanisms of human aging Revealed by this state of affairs are the profound disagreements between gerontologists in regard to the way of looking at the aging process The definition of aging itself is difficult to begin with because of the variability of how it occurs in different organisms **Regulation of Alternative Splicing** Philippe Jeanteur, 2013-03-14 The discovery in 1977 that genes are split into exons and introns has done away with the one gene one protein dogma Indeed the removal of introns from the primary RNA transcript is not necessarily straightforward since there may be optional pathways leading to different messenger RNAs and consequently to different proteins Examples of such an alternative splicing mechanism cover all fields of biology Moreover there are plenty of occurrences where deviant splicing can have pathological effects Despite the high number of specific cases of alternative splicing it was not until recently that the generality and extent of this phenomenon was fully appreciated A superficial reading of the preliminary sequence of the human genome published in 2001 led to the surprising and even deceiving to many scientists low number of genes around 32 000 which contrasted with the much higher figure around 150 000 which was previously envisioned Attempts to make a global assessment of the use of alternative splicing are recent and rely essentially on the comparison of genomic mRNA and EST sequences as reviewed by Thanaraj and Stamm in the first chapter of this volume Most recent estimates suggest that 40 60% of human genes might be alternatively spliced as opposed to about 22% for *C. elegans* **Guidance Cues in the**

Developing Brain Ivica Kostovic, 2003-03-24 Many complex molecular interactions are involved in the development of the mammalian brain. Molecules serving as guidance cues for migratory cells, growing axons and for recognition of postsynaptic targets are a major topic for research because they are directly involved in the formation of neuronal circuits thus creating the foundation for subsequent functional refinement through interactions with the environment. In addition, most guidance cue molecules are also involved in plasticity, damage repair and regeneration in the adult brain. This volume reviews current knowledge on major classes of molecules involved in guidance of growing axons, tau proteins involved in the establishment of axonal polarity, outgrowth and contact recognition, gangliosides and lectins involved in neuronal migration, neurite outgrowth and contact recognition, and myelin molecules that inhibit nerve regeneration. **Invertebrate Cytokines and the**

Phylogeny of Immunity Alain Beschin, Werner E. G. Müller, 2012-12-06 Based on the assumption that invertebrates as well as vertebrates possess factors regulating hematopoiesis, response to infection or wounding, studies dealing with the evolution of immunity have focused on the isolation and characterization of putative cytokine-related molecules from invertebrates. Until recently, most of our knowledge of cytokine and cytokine receptor-like molecules in invertebrates has relied on functional assays and similarities at the physicochemical level. As such, a phylogenetic relationship between invertebrate cytokine-like molecules and invertebrate counterparts could not be convincingly demonstrated. In the present book, recent studies demonstrating cytokine-like activities and related signaling pathways in invertebrates are critically reviewed, focusing on findings from molecular biology and taking advantage of the completion of the genome from the fly *Drosophila* and the worm *Caenorhabditis elegans*. Animal Evolution Maximilian J. Telford, D. Timothy J. Littlewood, 2009-08-13 Describing and understanding the evolution of the diversity of bodyplans is a major goal of evolutionary biology. Taking a modern integrated approach to this question, a group of leading researchers describe how modern techniques and disciplines have been combined, resulting in a dramatic renaissance in the study of animal evolution.

RNA Trafficking and Nuclear Structure Dynamics Philippe Jeanteur, 2004-01-14 This volume explores nuclear structure and trafficking involving or relevant to RNA and RNPs. Topics include advances and current problems in the structural organization of different subnuclear compartments, Cajal bodies and gems, speckles containing splicing factors, and PML bodies characteristic of ProMyelocytic leukemia. The book also describes the dynamic aspects of RNA trafficking and the latest technologies for live cell imaging of mRNA.

Human Gene Evolution David Cooper, 2024-11-15 The story of our evolutionary past is told in our genome sequence. Human Gene Evolution deals with the origins of human genes, describes their structure, function, organisation and expression. The text integrates our emerging knowledge of chromosome and genome structure and discusses the nature of the mutational mechanisms underlying evolutionary change. **Invertebrate Reproduction & Development**, 1999

Viruses and Apoptosis Covadonga Alonso, 2004-03-24 Using different viral models, molecular pathways regulated by viral genes and their role in the pathogenesis of infection are analyzed. The book also offers an update of known signaling

pathways in apoptosis and their role in normal and infected cells Special emphasis is given to molecular pathways underlying viral transformation and oncogenesis and how research in this area is opening opportunities in cancer therapy *Hormones And Their Receptors In Fish Reproduction* Philippa Melamed, Nancy Sherwood, 2005-03-01 Research on the molecular aspects of fish reproduction has progressed swiftly over the past few years With the availability of wide ranging molecular tools fish researchers have elucidated many of the molecular mechanisms regulating reproduction which operate in the brain pituitary and gonad This research has revealed novel variants of reproductive hormones and their receptors and has shed new light on the mechanisms through which many of these genes can be activated Several of the findings which are reported in this book have formed the basis for subsequent mammalian research and will also constitute the platform on which new approaches to reproductive management in aquaculture can be developed *Perspectives in Animal Phylogeny and Evolution* Alessandro Minelli, 2008-12-18 Animal phylogeny is undergoing a major revolution due to the availability of an exponentially increasing amount of molecular data and the application of novel methods of phylogenetic reconstruction as well as the many spectacular advances in palaeontology and molecular developmental biology Traditional views of the relationships among major phyla have been shaken and new often unexpected relationships are now being considered At the same time the emerging discipline of evolutionary developmental biology or evo devo has offered new insights into the origin and evolvability of major traits of animal architecture and life cycle All these developments call for a revised interpretation of the pathways along which animal structure and development has evolved since the origin of the Metazoa *Perspectives in Animal Phylogeny and Evolution* takes on this challenge successfully integrating morphological fossil and molecular evidence to produce a novel reinterpretation of animal evolution Central to the book's approach is an evo devo perspective on animal evolution with all the fresh insights this has given into the origin of animal organization and life cycles complementary to the more traditional perspectives of pattern cladistics comparative anatomy and embryology mechanisms developmental biology and adaptation evolutionary biology The author advocates the need to approach the study of animal evolution with a critical attitude towards many key concepts of comparative morphology and developmental biology Particular attention in the book is paid to the evolution of life cycles and larval forms □□□□, 2007 **Origin and Early Evolution of the Metazoa** Jere H. Lipps, Philip W. Signor, 2013-11-21 Several years ago we realized that the most prominent ideas that had been expressed about the origin and early evolution of the Metazoa seemed to have been developed chiefly by zoologists using evidence from modern species without reference to the fossil record Paleontologists had in fact put forth their own ideas but the zoological and the paleontological evidence were about the problem seldom considered together especially by zoologists We believed that the paleontological documentation of the first Metazoa was too scattered too obscure to Western readers and much of it too recent to have been readily available to our colleagues in zoology Whether or not that was entirely true we thought that a single volume reviewing the fossil record of the earliest Metazoa would be useful to many in both paleontology and zoology

especially since so much new information has been developed in the last few years. Some of this information has been summarized in general articles recently but an overview of most of the field does not exist. We therefore organized this book in five parts so that the evidence could be placed in perspective and summarized and inferences made from it. Part I introduces the previous hypotheses that have been proposed for the origin and early radiation of Metazoa. Part II consists of two summary chapters that set the sedimentological, geochemical, and biological background to the known radiations of Metazoa.

Introduction to Evolutionary Genomics Naruya Saitou, 2018-10-25. This authoritative textbook reference presents a comprehensive introduction to the field of evolutionary genomics. The opening chapters describe the fundamental concepts in molecular biology and genome evolution for readers without any prior background in this area. This is followed by a detailed examination of genome evolution in various different groups of organisms. The text then concludes with a review of practical methods essential to researchers in the field. This updated and revised new edition also features historical perspectives on contributions to evolutionary genomics from related fields such as molecular evolution, genetics, and numerical taxonomy. Topics and features: introduces the basics of molecular biology covering protein structure and diversity as well as DNA replication, transcription, and translation; examines the phylogenetic relationships of DNA sequences and the processes of mutation, neutral evolution, and natural selection; presents a brief evolutionary history of life, surveying the key features of the genomes of prokaryotes, eukaryotes, viruses, and phages; vertebrates and humans; reviews the various biological omic databases and discusses the analysis of homologous nucleotide and amino acid sequences; provides an overview of the experimental sequencing of genomes and transcriptomes and the construction of phylogenetic trees; describes methods for estimating evolutionary distances and performing studies of population genetics; supplies additional supporting material at an associated website. Serving as an indispensable textbook for graduate and advanced undergraduate courses on evolutionary genomics, this accessible overview will also prove invaluable to researchers from both computer science and the biological sciences seeking a primer on the field.

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