



THE EVOLUTION OF THE GENOME



Edited by
T. Ryan Gregory



The Evolution of the Genome, T. Ryan Gregory, Academic Press, 2011, 0080470521, 9780080470528, 768 pages. The Evolution of the Genome provides a much needed overview of genomic study through clear, detailed, expert-authored discussions of the key areas in genome biology. This includes the evolution of genome size, genomic parasites, gene and ancient genome duplications, polypoidy, comparative genomics, and the implications of these genome-level phenomena for evolutionary theory. In addition to reviewing the current state of knowledge of these fields in an accessible way, the various chapters also provide historical and conceptual background information, highlight the ways in which the critical questions are actually being studied, indicate some important areas for future research, and build bridges across traditional professional and taxonomic boundaries. The Evolution of the Genome will serve as a critical resource for graduate students, postdoctoral fellows, and established scientists alike who are interested in the issue of genome evolution in the broadest sense.

- Provides detailed, clearly written chapters authored by leading researchers in their respective fields
- Presents a much-needed overview of the historical and theoretical context of the various areas of genomic study
- Creates important links between topics in order to promote integration across subdisciplines, including descriptions of how each subject is actually studied
- Provides information specifically designed to be accessible to established researchers, postdoctoral fellows, and graduate students alike.

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Genome Evolution Gene and Genome Duplications and the Origin of Novel Gene Functions, Axel Meyer, Yves van de Peer, Jan 1, 2003, Science, 237 pages. In the years since the publication of Susumu Ohno's 1970 landmark book Evolution by gene duplication tremendous advances have been made in molecular biology and especially in

Practical Flow Cytometry , Howard M. Shapiro, Feb 25, 2005, Science, 736 pages. From the reviews of the 3rd Edition... "The standard reference for anyone interested in understanding flow cytometry technology." American Journal of Clinical Oncology "...one

Phylogeography The History and Formation of Species, John C. Avise, 2000, Science, 447 pages. Phylogeography is a discipline concerned with various relationships between gene genealogies--phylogenetics--and geography. The word "phylogeography" was coined in 1987, and

Bones and Cartilage Developmental and Evolutionary Skeletal Biology, Brian K. Hall, Jun 20, 2005, Science, 792 pages. Bones and Cartilage provides the most in-depth review ever assembled on the topic. It examines the function, development and evolution of bone and cartilage as tissues, organs

Genomic Regulatory Systems In Development and Evolution, Eric H. Davidson, Jan 24, 2001, Science, 261 pages. The interaction between biology and evolution has been the subject of great interest in recent years. Because evolution is such a highly debated topic, a biologically oriented

Low-level radiation biological interactions, risks and benefits : a bibliography, United States. Dept. of Energy. Technical Information Center, 1978, Science, 731 pages. .

Variation A Central Concept in Biology, Benedikt Hallgr?msson, Brian K. Hall, May 4, 2011, Science, 592 pages. Darwin's theory of evolution by natural selection was based on the observation that there is variation between individuals within the same species. This fundamental observation

Strickberger's Evolution , Brian Hall, Benedikt Hallgr?msson, 2008, Medical, 760 pages. This book presents evolution of organisms, how genes cell and embryonic development provide the organic framework by which evolution occurs and how evolution and society have

The Evolution of genome size , T. Cavalier-Smith, 1985, Science, 523 pages. .

Evolutionary genomics and proteomics , Mark D. Pagel, Andrew Pomiankowski, 2008, Science, 351

pages. .

Amphibian Cytogenetics and Evolution , David M. Green, Stanley K. Sessions, Jan 28, 1984, Science, 456 pages. This book appears at a time when molecular cytogenetics is positioned to make a significant impact upon evolutionary studies, enabling problems of chromosomal structure and

Molecular Evolutionary Genetics , Masatoshi Nei, 1987, Science, 512 pages. -- The Scientist.

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