



# The Evolution of the Genome

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## The Evolution of the Genome From Academic Press

*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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## Editorial Review

### Review

"Gregory provides an impressive overview of the key areas in genome biology, such as the evolution of genome size in animals and plants, polyploidy, the evolution of genomic parasites, and comparative genomics in eukaryotes and prokaryotes as well...the reading "flows" in a very enjoyable way. Gregory and his sixteen co-authors ask endless questions on large-scale evolutionary phenomena - and they answer them all: How common is polyploidy in plants, and how is it linked with animals, i.e. with attacking herbivores? What are "B Chromosomes", how widely are they distributed and where are they derived from? How did genomes originate? What is a procaryotic species? And so forth. In a word: Wherever one opens this well written book, he will read it with great pleasure." --**Weanée Kimblewood in LAB TIMES**

"*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." --**BIOWORLD, 2006**

"*The Evolution of the Genome* by Ryan Gregory and his co-authors is one of the most exciting books on large-scale evolutionary phenomena I have read in the past decade." --**Robert L. Carroll, Redpath Museum, McGill University**

"Availability of complete genomic sequences has begun to revolutionize many areas within and even outside Biology. This book provides the essential grammar to students and experts alike toward understanding the language of genomes." --**Juergen Brosius, University of Munster, Germany**

"A very useful book for my evolutionary genetics classes." --**Leo W. Beukeboom, University of Groningen, The Netherlands**

"Ryan Gregory sees the genome as a distinct level of biological organization. To Gregory and his collaborators in *The Evolution of the Genome*, the genome has its own internal structures and interactions among its parts. This is a dynamic way of looking at the genome, and one that suggests solutions to many problems--such as why some kinds of organisms have much larger genomes than others. In recognizing the hierarchical organization of the genome itself, Gregory has pioneered the analysis of how the genome fits into the broader aspects of biological organization and evolution. *The Evolution of the Genome* is an indispensable source on current understanding of genomic evolution." --**Niles Eldredge, The American Museum of Natural History, New York, New York**

"Gregory has arranged the chapters in a logical sequence, to facilitate a reading straight-through and while maintaining a loose association between them, each contribution is reasonably self-contained, to enable brief consultations...The chapters contain extensive references to guide the reader to further research. There are adequate tables, graphs, plots and illustrative matter to enrich the text. This book is recommended for academic collections supporting research programs in genetics, bioscience, microbiology and the like. This book will appeal to graduate students, looking for grounding in this area and to scientists exploring related research." --**Peggy Dominy in E-STREAMS**

### From the Back Cover

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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.

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#### About the Author

Dr. T. Ryan Gregory completed his Ph.D. in evolutionary biology and zoology at the University of Guelph in Ontario, Canada in 2002. He has been the recipient of several prestigious scholarships and fellowships, and was named the winner of the 2003 Howard Alper Postdoctoral Prize by the Natural Sciences and Engineering Research Council of Canada, one of the nation's premiere research awards. He has been a postdoctoral fellow at the American Museum of Natural History in New York and the Natural History Museum in London, England.

## Users Review

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##### Jacqueline Kang:

Book is to be different per grade. Book for children until finally adult are different content. As we know that book is very important usually. The book *The Evolution of the Genome* has been making you to know about other expertise and of course you can take more information. It is rather advantages for you. The reserve *The Evolution of the Genome* is not only giving you more new information but also to be your friend when you truly feel bored. You can spend your current spend time to read your e-book. Try to make relationship using the book *The Evolution of the Genome*. You never experience lose out for everything should you read some books.

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**Glenda Rogers:**

Reading a book to become new life style in this 12 months; every people loves to learn a book. When you examine a book you can get a large amount of benefit. When you read books, you can improve your knowledge, because book has a lot of information upon it. The information that you will get depend on what kinds of book that you have read. If you would like get information about your research, you can read education books, but if you want to entertain yourself you can read a fiction books, these kinds of us novel, comics, in addition to soon. The The Evolution of the Genome will give you a new experience in examining a book.

**Debra Daniel:**

As we know that book is important thing to add our know-how for everything. By a guide we can know everything we really wish for. A book is a list of written, printed, illustrated as well as blank sheet. Every year ended up being exactly added. This publication The Evolution of the Genome was filled in relation to science. Spend your extra time to add your knowledge about your scientific research competence. Some people has diverse feel when they reading a book. If you know how big good thing about a book, you can really feel enjoy to read a book. In the modern era like currently, many ways to get book which you wanted.

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