



# Evolution after Gene Duplication

*Katharina Dittmar, David Liberles*

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## **Evolution after Gene Duplication** Katharina Dittmar, David Liberles

Gene duplication has long been believed to have played a major role in the rise of biological novelty through evolution of new function and gene expression patterns. The first book to examine gene duplication across all levels of biological organization, *Evolution after Gene Duplication* presents a comprehensive picture of the mechanistic process by which gene duplication may have played a role in generating biodiversity.

### Key Features:

- Explores comparative genomics, genome evolution studies and analysis of multi-gene families such as *Hox*, globins, olfactory receptors and MHC (immune system)
- A complete post-genome treatment of the topic originally covered by Ohno's 1970 classic, this volume extends coverage to include the fate of associated regulatory pathways
- Taps the significant increase in multi-gene family data that has resulted from comparative genomics
- Comprehensive coverage that includes opposing theoretical viewpoints, comparative genomics data, theoretical and empirical evidence and the role of bioinformatics in the study of gene duplication

This up-to-date overview of theory and mathematical models along with practical examples is suitable for scientists across various levels of biology as well as instructors and graduate students.

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