



Structural and Evolutionary Genomics, Volume 37: Natural Selection in Genome Evolution (New Comprehensive Biochemistry)

Giorgio Bernardi

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Structural genomics is the study of the DNA of living organisms. Evolutionary genomics is the study of the history of the genome. These subjects are closely interlinked. They are approached in this book using as a guideline the investigations carried out in the author's laboratory, relevant literature is critically reviewed and some general conclusions are presented. The author and his collaborators have studied a vast number of genomes, ranging from prokaryotes to human, using different approaches, including physical chemistry of DNA, viral integration and molecular cytogenetics. As the subtitle indicates the book discusses the fundamental importance of natural selection in shaping genomes. In terms of numbers, neutral and nearly neutral mutations represent most mutations, but a "regional" control is exerted by natural selection (essentially negative or purifying selection). A "neo-selectionist" model is proposed for genome evolution.

- Summarizes the existing knowledge on genome organization and evolution in a self-contained book
- Discusses important open problem, without refraining from criticism whenever appropriate

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