

Non-Neutral Evolution: Theories and Molecular Data

Brian Golding



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All organisms--from the AIDS virus, to bacteria, to fish, to humans--must evolve to survive. Despite the central place of evolution within biology, there are many things that are still poorly understood. For Charles Darwin, the driving force behind all evolution was natural selection. More recently, evolutionary biologists have considered that many mutations are essentially neutral with respect to natural selection. Many questions remain. Are molecular differences between species adaptive? Are differences within species adaptive? Modern biotechnology has enabled us to identify precisely the actual DNA structure from many individuals within a population, and thus to see how these DNA sequences have changed over time and to answer some of these questions. At the same time, this knowledge poses new challenges to our ability to understand the observed patterns. This exciting volume outlines the biological problems, provides new perspectives on theoretical treatments of the consequences of natural selection, examines the consequences of molecular data, and relates molecular events to speciation. Every evolutionary biologist will find it of interest.

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