Adaptive Evolution Of Genes And Genomes

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Buy Adaptive Evolution of Genes and Genomes by Austin L. Hughes (ISBN: 9780195116267) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Adaptive evolution results from the propagation of advantageous mutations through positive selection. This is the modern synthesis of the process which Darwin and Wallace originally identified as the mechanism of evolution. However, in the last half century there has been considerable debate as to whether evolutionary changes at the molecular level are largely driven by natural selection or random genetic drift. Unsurprisingly, the forces which drive evolutionary changes in our own species ...

~~Adaptive evolution in the human genome - Wikipedia~~
Evolution is not purposefully adaptive; it is the result of various selection forces working together to influence genetic and phenotypical variances within a population. Key Terms linkage disequilibrium : a non-random association of two or more alleles at two or more loci; normally caused by an interaction between genes

~~Adaptive Evolution | Boundless Biology~~
Positive selection and gene duplication are two major mechanisms of adaptive evolution. Because mitochondrial genomes lack recom-bination and thus cannot generate duplicate genes, we deduced that positive selection must have occurred on some mtDNA genes during some lineages in the evolution of animals.

~~Adaptive evolution of energy metabolism genes and the ...~~
Our study provides evidence that the FCoV genes encoding replicative, entry, and virulence proteins potentially experienced adaptive evolution. A greater number of sites in each gene experienced negative rather than positive selection, which suggests that most of the protein sequence must be conservatively maintained for virus survival.

~~Adaptive Evolution of Feline Coronavirus Genes Based on ...~~
Evidence from previous work salient to the hypothesis that the adaptive evolution of genes underlying schizophrenia has involved phenotypic selection comes from studies of genetic linkages between schizophrenia-risk genes and aspects of creativity.

~~Adaptive evolution of genes underlying schizophrenia ...~~
Both mitochondrial and nuclear-encoded OXPHOS genes display evidence of adaptive evolution along the common ancestral branch of bats, supporting our hypothesis that genes involved in energy metabolism were targets of natural selection and allowed adaptation to the huge change in energy demand that were required during the origin of flight.

~~Adaptive evolution of energy metabolism genes and the ...~~
Some of the sequences were very short and thus not used. To reduce the computation for likelihood ratio tests (LRTs) of adaptive evolution in Asteraceae CHS genes, we did not use all available outgroup sequences; instead we selected one sequence from each of the closely related families of Asteridae CHS genes as outgroups.

~~Duplication and Adaptive Evolution of the Chalcone ...~~
Molecular Evolution of Microcephaly Genes and Brain Evolution. Studying the molecular basis of convergent phenotypes has enhanced our understanding of the evolutionary genetics of adaptation and the constraints that act on phenotypic evolution (Arendt and Reznick 2007). Here, we show that independent increases in brain mass across anthropoids may share a common genetic basis.

~~Adaptive Evolution of Four Microcephaly Genes and the ...~~
Gene duplication-amplification (GDA) processes are highly relevant biologically because they generate extensive and reversible genetic variation on which adaptive evolution can act. Whenever cellular growth is restricted, escape from these growth restrictions often occurs by GDA events that resolve the selective problem.

~~Gene amplification and adaptive evolution in bacteria.~~
Adaptive evolution of the duplicated Rheum CHS-like genes The analysis of synonymous and non-synonymous distances between two groups of Rheum CHS -like gene subfamilies demonstrated that subfamilies of original and duplicated genes within each of the two lineages differed from each other at both synonymous and non-synonymous sites.

~~Gene duplication and adaptive evolution of the CHS-like ...~~
The gene-level adaptive evolution was studied via MEME, allowing site-to-site and branch-to-branch distribution of ω [32,58,59]. Under episodic diversification selection the MEME identified the different codon sites with p < 0.01 . Through this model, the synonymous (α) and non-synonymous (β) substitution levels were determined, and coding sites with values β>α were considered to be important in determining the sites under selection diversification.

~~Adaptive evolution of peptidoglycan recognition protein ...~~
Although the evolution of most nucleotides, at any particular moment, is governed by mutation, drift, and/or purifying selection, still there is plenty of room left for adaptive evolution. Many fascinating discoveries have already been made, and Hughes provides the first comprehensive review. ...

~~Adaptive Evolution of Genes and Genomes: Hughes, Austin L ...~~
Adaptive radiation. The geographic separation of populations derived from common ancestors may continue long enough so that the populations become completely differentiated species before ever regaining sympatry and the opportunity to interbreed. As the allopatric populations continue evolving independently, RIMs develop and morphological differences may arise.

~~Evolution - Adaptive radiation | Britannica~~
Adaptation is related to biological fitness, which governs the rate of evolution as measured by change in gene frequencies. Often, two or more species co-adapt and co-evolve as they develop adaptations that interlock with those of the other species, such as with flowering plants and pollinating insects .

~~Adaptation - Wikipedia~~
One candidate gene is apolipoprotein E (apoE), with the E3 allele evolved in the genus Homo that reduces the risks for Alzheimer’s and vascular disease, as well as influencing inflammation, infection, and neuronal growth. Other evolved genes mediate lipid metabolism and host defense.

~~Meat-Adaptive Genes and the Evolution of Slower Aging in ...~~
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Brucella species are Gram-negative, facultative intracellular pathogens. They are the main cause of brucellosis, which has led to a global health burden. Adherence of the pathogen to the host cells is the first step in the infection process. The bacteria can adhere to various biotic and abiotic surfaces using their outer membrane proteins.