

# Organic Evolution

## Important People, Words and Ideas

types of extinctions	sexual selection
“overkill” hypothesis	rare male selection
graded extinction	linkage disequilibrium
Human evolution	co-adapted gene complex
“out of Africa” hypothesis	‘super’ gene
“multi-regional” hypothesis	regulatory gene
taxonomic schools of thought	mimetic complexes
evolutionary	Batesian
phenetic	Müllerian
cladistic	frequency dependent selection
paraphyly	linkage equilibrium
Hardy-Weinburg null hypothesis	deep genetic homologies
violations of Hardy-Weinburg and comparisons of evolutionary rates	Hox and homeobox genes
genetic drift	neutralist theory of molecular evolution
founder effect	genetic load
heterozygous advantage	molecular clock
‘random’ walk toward homozygosity	pseudogenes
types of selection	codon usage bias
overdominance and evolutionary equilibrium	macroevolution

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stress-related recombination  
rates

Goldschmidt's 'Hopeful Monster'

Stephen Gould

punctuated equilibria

heterochrony

recapitulation

neotony

D'Arcy Thompson

molecular drive models of  
speciation

types of coevolution

examples of coevolution

pollination syndromes

gene for gene hypothesis

convergent evolution

mirror phylogenies

'Red Queen' hypothesis