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FORCES IN THE DEVELOPMENT OF AVIAN MOLECULAR SYSTEMATICS When viewed on a rough scale, avian systematics appears to have improved concomitantly with the technological and methodological advances of systematics as a whole. These advances have permitted conceptual breakthroughs and consequent progressive growth and expansion in the field.

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Phylogeny and evolution of 12S rDNA in Gruiformes (Aves). pp. 117-154 In Avian Molecular Evolution and Systematics (D. P. Mindell, ed.) Academic Press. Houde, P., F.H. Sheldon, and M. Kreitman. 1995. A comparison of solution and membrane-bound DNA X DNA hybridization, as used to infer phylogeny. Journal of Molecular Evolution 40: 678-688. abstract

Peter Houde

Biological systematics is the study of the diversification of living forms, both past and present, and the relationships among living things through time. Relationships are visualized as evolutionary trees (synonyms: cladograms, phylogenetic trees, phylogenies). Phylogenies have two components: branching order (showing group relationships) and branch length (showing amount of evolution).

Systematics - Wikipedia

Molecular evolution is the process of change in the sequence composition of cellular molecules such as DNA, RNA, and proteins across generations. The field of molecular evolution uses principles of evolutionary biology and population genetics to explain patterns in these changes. Major topics in molecular evolution concern the rates and impacts of single nucleotide changes, neutral evolution ...

Molecular evolution - Wikipedia

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The Claramunt Lab - Evolution and Systematics of Birds

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