

Beyond Cladistics The Branching Of A Paradigm Species And Systematics

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The school of biological systematics known as cladistics is notorious for drawing a distinction between pattern and process (Nelson and Platnick 1981; Beatty 1982). The pattern is one of relative degrees of relationships, the process is one of species lineages splitting and splitting again.

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Part Four: Beyond Species Description 321 CHAPTER 17. SUBSPECIES 323 ... Evolutionary Systematics 434 Phenetics 438 Cladistics 439 Molecular Systematics 446 Biogeography 450 Comparative Biology 451 Sources 451 ... Figure 19.5 Branching key Figure 19.6 Matrix key

species are shown here). 2 Tabulate the molecular data for the species (in this simplified example, the data represent a DNA sequence consisting of just seven nucleotide bases). 3 Now focus on site 1 in the DNA sequence. A single base-change event, marked by the crossbar in the branch leading to species I, is sufficient to account for the site ...

would go beyond the number of pages allocated to this review. The reader could easily be referred to the pages of journals such as Cladistics, Journal of Molecular Evolution, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, Nature, PNAS, Science, Systematic Biology, and Zoologica Scripta, among oth-ers.

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The eucalypts, which include Eucalyptus, Angophora and Corymbia, are native to Australia and Malesia and include over 800 named species in a mixture of diverse and depauperate lineages. We assessed the fit of the eucalypt taxonomic classification to a phylogeny of 711 species scored for DNA sequences of plastid matK and psbA–trnH, as well as nuclear internal transcribed spacer and external ...

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systematics defines phylogenesis in this un-ambiguous sense. Mayr considers this definition erroneous, and adds, as a second "set of factors" the "amount and nature of evolutionary change between branching points" (p. 95). But these companion phe-nomena of phylogenesis, which vary more or less in different sister-groups, are dis-

2010 (English) In: BEYOND CLADISTICS: THE BRANCHING OF A PARADIGM, BERKELEY:

UNIV CALIFORNIA PRESS , 2010, Vol. 3, p. 19-33 Chapter in book (Refereed) Place, publisher, year, edition, pages BERKELEY: UNIV CALIFORNIA PRESS , 2010. Vol. 3, p. 19-33 Series Species and Systematics ; 3 National Category Biological Sciences Identifiers

as an early method of numerical cladistics (Camin and Sokal, 1965) and a method for obtaining taxonomic structure by random and systematic scanning of biological images (Sokal and Rohlf, 1966; Rohlf and Sokal, 1967). Other experiments on taxonomic judgment have also been based on the Caminalcules (Moss, 1971; Sokal, 1974; Moss and Hansell, 1980).

context. The first is cladistics (understood in a broad sense), a way of evaluating and comparing phylogenetic hypotheses formulated on the basis of shared evolutionary novelties. Cladistics allowed an examination of diverse sets of characters (morphological, behavioral, or others) by taking their evidence into simultaneous

each species Base-change event 1 First, draw the possible phylogenies for the species (only 3 of the 15 possible trees relating these four species are shown here). 2 Tabulate the molecular data for the species (in this simplified example, the data represent a DNA sequence consisting of ...

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By cladistics and phylogenetics we mean selecting the most plausible hypotheses of sequence of branching in evolutionary trees (called cladograms and phylograms) based on statistical analysis of morphological and molecular data, as developed by Hennig (phylogenetic systematics using morphology), Fitch (molecular phylogeny), Gauthier (application of paleontology to cladistics) and others

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