

## Cladistic relationships in the genus *Schizanthus* (Solanaceae)

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The cladistic relationships between *Schizanthus* species, based primarily on morphology, and chemical characters when available are presented. In this investigation we did not find supporting evidence for the theories grouping of Grau and Gronbach (Mitt. Bot. München 20 (1984) 111). The anomalous presence of hygrolines in *S. integrifolius* Phil. is a case of primitivism and isolation of this group, and it is not closely related to *S. grahamii* Gill. or *S. hookeri* Gill. Pseudohygrolines in *S. pinnatus* R. et P., *S. hookeri*, and *S. litoralis* Phil. appear as ancestral features and are unreliable for establishing phylogenetic relationships. The chemical evolution in *Schizanthus* runs, in parallel from the pyrrolidine to the tropane series, with subsequent dimerization or trimerization. © 2001 Elsevier Science Ltd. All rights reserved.