

Appendix

Appendix 1: Morphological Characters and States for Phylogenetic Analysis of Microcentrini

Head

1. Frontoclypeus: (0) unilobed; (1) weakly trilobed; (2) strongly trilobed.
2. Placement of ocelli: (0) on or above centro-ocular line; (1) below centro-ocular line.
3. Form of ocelli: (0) not stalked; (1) stalked.
4. Form of compound eyes: (0) not stalked; (1) stalked.
5. Dorsal projections: (0) absent; (1) small, more or less distinct; (2) large, distinct.

Thorax

6. Posterior pronotal process: (0) absent; (1) present.
7. Length of posterior pronotal process: (0) shorter than or equal to length of scutellum; (1) longer than length of scutellum.
8. Posterior pronotal process: (0) simple, spinelike; (1) complex, not spinelike. If the posterior pronotal process is absent (character 6, state 0), then this character is coded as “?”.
9. Posterior pronotal process: (0) extending over, but not concealing scutellum dorsally; (1) concealing scutellum dorsally. If the posterior pronotal process is absent (character 6, state 0), then this character is coded as “?”.
10. Swollen apical node of posterior pronotal process: (0) absent; (1) present.
11. Swollen basal node of posterior pronotal process: (0) absent; (1) present.
12. Suprahumerals horns: (0) absent; (1) present. Within the subfamily Stegaspidinae there seems to have been a tendency for suprahumeral horns to migrate from a lateral position on the pronotum to a more central position, followed by a vertical migration in taxa with pronotal stalks. Therefore, the suprahumeral horns of *Microcentrus* and *Flexocentrus*, for example, are thought to be homologous with the anterior pronotal stubs of *Oeda* as well as the lateral branches of the pronotal stalks of *Stylocentrus* and *Umbelligerus*.