



Figure 1. Consensus tree of 72 most parsimonious cladograms for Formicidae (after Baroni Urbani et al. 1992).

Ectatommini:	<i>Paraponera</i> F. Smith <i>Proceratium</i> Roger <i>Discothyrea</i> Roger <i>Rhytidoponera</i> Mayr <i>Ectatomma</i> F. Smith <i>Gnamptogenys</i> Roger <i>Acanthoponera</i> Mayr <i>Heteroponera</i> Mayr	Ponerini:	<i>Harpegnathos</i> Jerdon <i>Pachycondyla</i> F. Smith <i>Centromyrmex</i> Mayr
		Ambyoponini:	<i>Amblyopone</i> Erichson
		Platythyreini:	<i>Platythyrea</i> Roger
		Typhlomyrmecini:	<i>Typhlomyrmex</i> Mayr
		Cerapachyinae:	<i>Cerapachys</i> (1st outgroup)
		Myrmeciinae:	<i>Myrmecia</i> (2nd outgroup)

Figure 2 shows the consensus cladogram of his first analysis. This is a consensus of 5 most parsimonious cladograms (C.I.=50, R.I.=62) using *Cerapachys* as outgroup. Based on this first analysis, he proposed to exclude *Paraponera*, *Proceratium* and *Discothyrea* from Ectatommini, and to revive the tribes Paraponerini and Proceratini to place those excluded genera. As for Ectatommini, he explicitly redefined it to include *Rhytidoponera*, *Ectatomma*, *Gnamptogenys*, *Acanthoponera* and *Heteroponera*. Note that on this tree (Fig. 2) the

exclusion of the 3 genera appears well founded, but that the redefined Ectatommini is part of a polytomy. This polytomy is the result of conflicting resolutions among the 5 most parsimonious trees. The redefined Ectatommini is not monophyletic under any of those resolutions. Lattke decided to leave Ectatommini, awaiting further evidence.

Figure 3 shows the result of Lattke's second analysis using *Myrmecia* as outgroup. Lattke reported only the strict consensus tree¹ for this anal-

¹Lattke reported his consensus tree as being the result of four most parsimonious trees (L=96, C.I.=48, R.I.=63). In reanalyzing his data, only two most parsimonious trees were found with the same length, C.I. and R.I. Lattke's original consensus tree is less resolved than the one presented here (Fig. 3). This fact discards the possibility of having a higher number of mpt's due to consideration of semistrictly supported trees. The two most parsimonious trees were obtained applying the mswap+ command in NONA (Goloboff 1996) that guarantees an exact solution. No explanation could be found for the difference in the number of most parsimonious trees.