



Figs. 15 and 16. Basal part of the fourth abdominal segment in lateral view; 15, *Ectomomyrmex javanus* (Ponerinae: Ponerini, Formicidae); 16, *Aphaenogaster famelica* (Myrmicinae, Formicidae).

Figs. 17 and 18. Sagittal section of the second and third abdominal segments; 17, *Ceratina japonica*, (Apidae); 18, *Amblyopone australis* (Ponerinae: Amblyoponini, Formicidae).

Figs. 19-21. Position of insertion of muscle No. 3, various muscles removed to show the insertion; 19, *Ceratina japonica*, (Apidae); 20, *Tiphia latistriata* (Tiphidae); 21, *Amblyopone australis* (Ponerinae: Amblyoponini, Formicidae). Pr=presclerites. Arabic numerals indicate the muscle numbers. Roman numerals indicate segment numbers.

having the lateral incisions of the second segment, the muscles No. 3 run through the incisions of the second segment to the anterolateral corners of the pretergum of the third segment (Figs. 21 & 32).

In Formicidae, muscles Nos. 1 and 3 are greatly increased in size, while the remaining muscles are either absent or too slender to be functional.