

**Murugan, M., Ebenezer, P. & Muthumary, J.** 2008. Light and transmission electron microscopic studies on the conidiomatal development and conidia of *Pestalotiopsis cruenta*. – Mycologia Balcanica **5**: 97-102.

**Abstract.** This study has clarified the conidiomatal development of *Pestalotiopsis cruenta* by using light and transmission electron microscopes. Based on light microscopic studies of the isolated fungus, it was shown that this species forms non-ostiolate pycnidial conidiomata in culture, whereas it is known to produce only acervular conidiomata on leaves. One of the interesting observations is the ultrastructure of the conidial wall in the pigmented cells as well as the basal and apical hyaline cells with the appendages. To the authors' knowledge, this is the first ultrastructural examination of conidiomata and conidia of *Pestalotiopsis cruenta*.

**Key words:** acervular and pycnidial conidiomata, appendicular coelomycetes, conidium ontogeny, ultrastructure