

Vánky, K., Lutz, M. & Shivas, R.G. 2006. *Anomalomyces panici*, new genus and species of Ustilaginomycetes from Australia. – *Mycologia Balcanica* **3**: 119-126.

**Abstract.** A new genus, *Anomalomyces*, is proposed to accommodate a peculiar, new smut fungus, *A. panici*, collected in Australia, on *Panicum trachyrhachis*. The new species shares some characteristics of both *Sporisorium* and *Macalpinomyces*, but is also unique in possessing two types of sterile cells. *Anomalomyces* is compared morphologically to the genera *Ustilago*, *Sporisorium*, and *Macalpinomyces*. Its relation to these genera is shown also by molecular analyses of ITS and LSU rDNA sequences. The problems of generic delimitation in this large group of smut fungi are discussed.

**Key words:** *Anomalomyces*, *A. panici*, ITS, LSU, *Macalpinomyces*, molecular analysis, smut fungi, *Sporisorium*, *Ustilago*