

**Denchev, C.M.** 2005. Problems in conservation of fungal diversity in Bulgaria and prospects for estimating the threat status of microscopic fungi. – *Mycologia Balcanica* **2**: 251-256.

**Abstract.** Recent activity and current problems in conservation of fungal diversity in Bulgaria are discussed. The need for complex investigation, conservation, and monitoring of fungal diversity is presented. A preliminary red list of smut fungi in Bulgaria (as an example for redlisting of microscopic fungi), evaluated with IUCN criteria, is proposed, including 16 species: two Regionally Extinct (RE) (*Ustilago bulgarica* and *Doassansia punctiformis*), four Critically Endangered (CR) (*Entyloma urocystoides*, *Urocystis aquilegiae*, *Microbotryum holostei*, and *M. jehudanum*), three Endangered (EN) (*Schizonella intercedens*, *Sporisorium schweinfurthianum*, and *Urocystis leimbachii*), two Vulnerable (VU) (*Microbotryum violaceo-verrucosum* and *Thecaphora thlaspeos*), and five Data Deficient (DD) (*Entorrhiza casparyana*, *Entyloma corydalis*, *Schizonella cocconii*, *Urocystis eranthidis*, and *U. junci*). Information about their distribution, threats, and conservation actions is also given.

**Key words:** Bulgaria, conservation of fungi, fungal diversity, redlisting of microscopic fungi, smut fungi, threat status of microscopic fungi