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MOLECULAR AND MORPHOLOGICAL IDENTIFICATION OF *CHROOGOMPHUS MEDITERRANEUS* NEW TO THE HUNGARIAN FUNGA

A *Chroogomphus mediterraneus* első magyarországi azonosítása molekuláris és morfológiai alapon

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During a regional study of the morphologically recognisable species of the conifer associated basidiomycetous *Chroogomphus* (Singer) O.K. Mill. (*Boletales*), a new, unresolved question arose about the recently discovered cryptic diversity of this genus. In Hungary, *Chroogomphus* had previously been examined solely based on morphology, and according to this, published data were only available for the species *C. rutilus* (Schaeff.) O.K. Mill. and *C. helveticus* (Singer) M.M. Moser. In Hungary, *C. rutilus* is an officially authorized fungus species for retail sale, therefore it is a frequently collected and consumed mushroom. However, based on literature data, *C. mediterraneus* (Finschow) Vila, Pérez-De-Greg. & G. Mir with a similar appearance to *C. rutilus* s. str. can presumably occur in Hungary as well, necessitating a re-evaluation of previous identifications. In this study, we examined a total of 30 samples from 16 localities using both morphological and molecular genetic methods. Our phylogenetic analyses based on the nrDNA ITS region confirmed the presence of *C. mediterraneus* from Hungary. The ecological context of these occurrences in Hungarian *Pinus* plantations are evaluated based on bioclimatic, edaphic and forestry data. As additional support for species delimitation and morphological based identification, some novel morphological characters are also presented.

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