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Contributions to the *Inocybe umbratica–paludinella* (*Agaricales*) Group in China: Taxonomy, Species Diversity, and Molecular Phylogeny

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Abstract

Inocybe is the largest genus in the family *Inocybaceae*, with approximately 1000 species worldwide. Basic data on the species diversity, geographic distribution, and the infrageneric framework of *Inocybe* are still incomplete because of the intricate nature of this genus, which includes numerous unrecognized taxa that exist around the world. A multigene phylogeny of the *I. umbratica–paludinella* group, initially designated as the "*I. angustifolia* subgroup", was conducted using the ITS-28S-*rpb2* nucleotide datasets. The seven species, *I. alabamensis*, *I. angustifolia*, *I. argenteolutea*, *I. olivaceonigra*, *I. paludinella*, *I. subangustifolia*, and *I. umbratica*, were confirmed as members of this species group. At the genus level, the *I.*