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Diversity of Fungi Isolated from Soil of Jeollabuk-do and Chungcheongbuk-do, Korea

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This study was conducted aiming with the assessment of fungal diversity in soil samples collected from different locations of Jeollabuk-do and Chungcheongbuk-do, Korea. Forty soil samples were collected in 2015 and fungi were isolated through serial dilution technique. Isolated fungi were purified and differentiated according to their morphological and microscopic characteristics. In total, 150 different representative isolates were recovered and the genomic DNA of each isolate was extracted by using QIAGEN® Plasmid Mini Kit (QIAGEN Sciences, USA) and the identification of fungi was carried out by sequence analysis of internal transcribed spacer (ITS) region of the 18S ribosomal DNA (18S rDNA). Recovered isolates belonged to 37 family, 67 genera and 108 species. *Aspergillus* spp., *Penicillium* spp., *Trichoderma* spp., *Chaetomium* spp. And *Fusarium* spp. were the most dominant taxa in this study. Out of total species, 20 species were identified as new records for Korea.