Antioxidant Properties of Natural $p$-Terphenyl Derivatives from the Mushroom *Thelephora ganbajun*

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The antioxidant activity *in vitro* of three poly(phenylacetyloxy)-substituted 1,1′:4′,1″-terphenyl compounds from the edible mushroom *Thelephora ganbajun* were investigated. The IC$_{50}$ values of compounds 1–3 for lipid peroxidation in rat liver homogenate were 400, 48, 54 µM, respectively. Compounds 1–3 increased superoxide dismutase (SOD) activity with EC$_{50}$ values of 182, 74, 204 µM. They were also assessed on the DPPH (1,1-diphenyl-2-picrylhydrazy) radical scavenging activity with EC$_{50}$ values of 49, 1233, 55 µM.

**Key words:** *Thelephora ganbajun*, Terphenyl Derivatives, Antioxidant Activity