Comparative Study on Antioxidant Activity of *Brassica rapa* var. *parachinensis* Leaves and Seeds

Mona Ghanad*, Rosimah Nulit, Rusea Go, Christina Yong Seok
Department of Biology, Faculty of science, University Putra Malaysia
Corresponding author email address: m.ghanad.upm@gmail.com

Abstract:

The aim of this study was to assess the antioxidant activities of *B. rapa* var. *parachinensis* leaves and seeds. The aqueous extraction of leaves and seeds were analyzed for total amount of phenolic, flavonoids, ascorbic acid, chlorophylls, carotenoids, 2,2-diphenyl-1-picryl-hydrazil (DPPH) radical scavenging activity and reducing power capacity. The total amount of biochemical compounds showed different variety between leaves and seeds. The content of vitamin C was incredibly higher in seeds while the quantity of chlorophyll, carotenoids and phenolic contents was higher in leaves. DPPH scavenging activity of seed extraction displayed higher percent of inhabitation in comparison with leaves. The reduce power of seed and leaves at 10 mg extract were 0.46±0.024 and 1.03±0.058, respectively. The data were analyzed by one-way ANOVA multiple comparison test followed by Duncan's multiple range test.

Keyword; *Brassica*, antioxidant assay, phenolics, ascorbic acid, chlorophyll; flavonoid.