## Phytochemical Profiles and Antioxidant Activity of Selected Indigenous Vegetables in Northern Mindanao, Philippines

Authors : Renee P. Baang, Romeo M. del Rosario, Nenita D. Palmes

**Abstract :** The crude methanol extracts of five indigenous vegetables namely, Amarathus tricolor, Basella rubra L, Chochurus olitorius L., Ipomea batatas, and Momordica chuchinensis L., were examined for their phytochemical profile and antioxidant activity using 1,1-diphenyl-2-picrylhydrazyl (DPPH) free radical. The values for DPPH radical scavenging activity ranged from 7.6-89.53% with B. rubra and I. batatas having the lowest and highest values, respectively. The total flavonoid content of all five indigenous vegetables ranged from 74.65-277.3 mg quercetin equivalent per gram of dried vegetable material while the total phenolic content ranged from 1.93-6.15 mg gallic acid equivalent per gram dried material. Phytochemical screening revealed the presence of steroids, flavonoids, saponins, tannins, carbohydrates and reducing sugars, which may also be associated with the antioxidant activity shown by these indigenous vegetables.

**Keywords :** antioxidant, DPPH radical scavenging activity, Philippine Indigenous vegetables, phytochemical screening **Conference Title :** ICBB 2015 : International Conference on Biochemistry and Biotechnology

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