

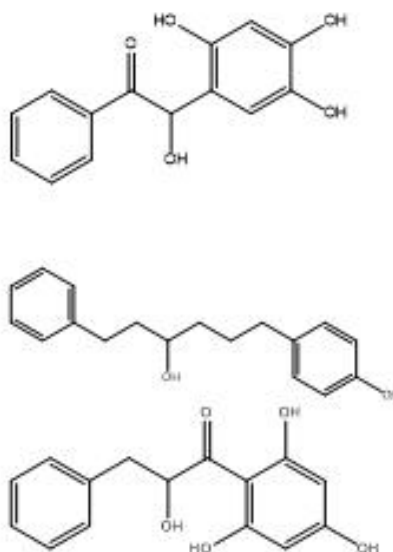
Chemical constituents from Malayan *Boesenbergia stenophylla*

Phoebe Sussana Primus, Nabila Elyana, and *Yeun-Mun Choo

Chemistry Department, University of Malaya, Kuala Lumpur 50603, Malaysia
E-mail: ymchoo@um.edu.my

The genus *Boesenbergia* belongs to zingerberacea family, which consists of approximately 80 species distributed throughout tropical Asia mainly in Thailand, Sumatra, Peninsular Malaysia, Sarawak, Brunei, Sabah, Kalimantan and Philipines. Among them, 21 species are indigenous to Borneo. *B. stenophylla* is a perennial rhizomatous herb of height 20-30cm, growing in mixed dipterocarp forest floor of highland areas. In the present

study, five new compounds, BS1, BS2, BS3, BS4 and BS5, were isolated from the dried rhizome of *B. stenophylla*, together with two known compounds, BS6 and BS7. The structures of BS1-5 were determined by spectroscopic analysis (1D and 2D NMR and HRESIMS) analysis. The antioxidant activities were carried out using DPPH and FRAP assays. The results indicate that BS2 and BS3 displayed moderate antioxidant activities.



Yeun-Mun **CHOO**, Ph.D.
Chemistry Department, University of Malaya (Ph.D., 2004).
Post-Doctoral Associate (2004-2005; University of Mississippi, USA).
Research Scientist (2006; Kemin International Pte. Ltd, Singapore).
Senior Research Scientist (2007-2009; Merlion Pharmaceuticals Pte. Ltd., Singapore).
Senior Lecturer (2009-present; Chemistry Department, University of Malaya, Malaysia).
Natural Products Chemistry.