

P-137**Absolute Configuration of New Flavan-3-ol from *Uncaria Longiflora* Var. *Pteropoda* (Miq.) Ridsd**

Fatimah Salim^{1,2}, Mazatulikhma Mat Zaina³, Mohd Syafiq Mohammad Ridzuan³, Moses Langat^{4,5}, Dulcie Mulholland^{4,5} and Rohaya Ahmad^{1,2,*}

¹Faculty of Applied Sciences, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia; ²Atta-ur-Rahman Institute for Natural Products Discovery (RiND), Universiti Teknologi MARA, 42300 Bandar Puncak Alam, Selangor, Malaysia; ³Tissue Culture Research Laboratory, Centre of Synthesis and Chemical Biology, Institute of Science, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia; ⁴Natural Product Research Group, Department of Chemistry, Faculty of Engineering and Physical Sciences, University of Surrey, Guildford, GU2 7XH, UK; ⁵Department of Chemistry, University of KwaZulu-Natal, Durban, 4041, South Africa; E-mail: rohayaahmad@salam.uitm.edu.my

A novel flavonoid, (-)-2*R*,3*R*-3,5,4'-trihydroxyflavan-[6,7:5'',6'']-2''-pyranone/ (-)-2*R*,3*R*-pyrano-5'',6'':6,7]-3,5,4'-trihydroxyflavan-2''-one named uncarinol (**1**) was isolated from the methanolic extract of the leaves of *Uncaria longiflora* var. *pteropoda* (Miq.) Ridsd. along with the known (-)-*epiafzelechin* (**2**) and (-)-*epicatechin* (**3**). Structures of the flavonoids were elucidated by 1D and 2D NMR, FTIR, UV, MS and CD data. The absolute configuration of the new uncarinol was established by comparison of its experimental and calculated electronic circular dichroism (ECD) data.

Keywords: Rubiaceae, *Uncaria*, *epiafzelechin*, *epicatechin*, Electronic Circular Dichroism.
