P-137

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

Fatimah Salim$^{1,2}$, Mazatulikhma Mat Zaina$^3$, Mohd Syafiq Mohammad Ridzuan$^3$, Moses Langat$^{4,5}$, Dulcie Mulholland$^{4,5}$ and Rohaya Ahmad$^{1,2,*}$

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

A novel flavonoid, (−)-2R,3R,3,5,4′-trihydroxyflavan-[6,7:5′,6′]-2′-pyranone/ (−)-2R,3R-pyran-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.