

A Novel Metabolic Products From Thermophilic Fungus , *Aspergillus terreus* : Ergotetranone A-D

Ya-Hsiu Chuang (莊雅琇)^{1,2}, Zih-You Huang^{2,3}, Hsin-Ta Wang^{1*}, and Shih-Hsiung Wu^{2,3*}

¹*Graduate Institute of Organic and Polymeric Materials, National Taipei University of Technology, 106 Taipei, Taiwan*

²*Institute of Biological Chemistry, Academia Sinica, Taipei 115, Taiwan*

³*Institute of biochemical Sciences, National Taiwan University, Taipei 106, Taiwan*

Aspergillus terreus found in Taiwan is the thermophilic fungus. In our previous study, its crude extract showed potential cytotoxicity toward various tested human cancer cell lines. Based on the general partition and series chromatography, four new steroid derivatives Ergotetranone A-D (**1-4**) were isolated and determined, together with three known compounds, Ergosta-4,6,8(4),22-tetrane-3-one (**5**), Ergosta-5,7,22-trien-3 β -ol (**6**), 5 α ,8 α -epidioxyergosta-6,22-dien-3 β -ol (**7**).

All structures were identified by one- and two-dimensional NMR spectroscopy and Mass spectrometry. The investigation of biological activities of these steroid derivatives are under going.