

Seco-cassine diterpenoids and cytotoxic activities of the
constituents from the roots of *Acacia farnesiana*

Yu-Chang Chen (陳昱璋)^{1,*}, Hui-Hua Liu (劉蕙華)¹,

Hong-Zin Lee (李鳳琴)²

¹ Department of Chinese Pharmaceutical Science and Chinese Medicine
Resources, College of Pharmacy, China Medical University, Taichung,
Taiwan

² School of Pharmacy, College of Pharmacy, China Medical University,
Taichung, Taiwan

Acacia farnesiana (L.) Willd (Leguminosae) is an erect pantropic shrub with forking prickles and widely distributed in the southern part of Taiwan. The preliminary study showed the methanolic extract of its root owning selected cytotoxicity against the HSC-3 cancer cell line. We have reported two new diterpenoids, farnesiranes CI and CII, and seven know compounds. Continuing investigation had led to the isolation of four new compounds, farnesiranes DI, DII, EI, and EII, together with 13 known compounds. Among these compounds, farnesirane CI in 30 μ M showed the cytotoxic activity against HSC-3 cell line. The structures of these compounds were determined through spectral data.