

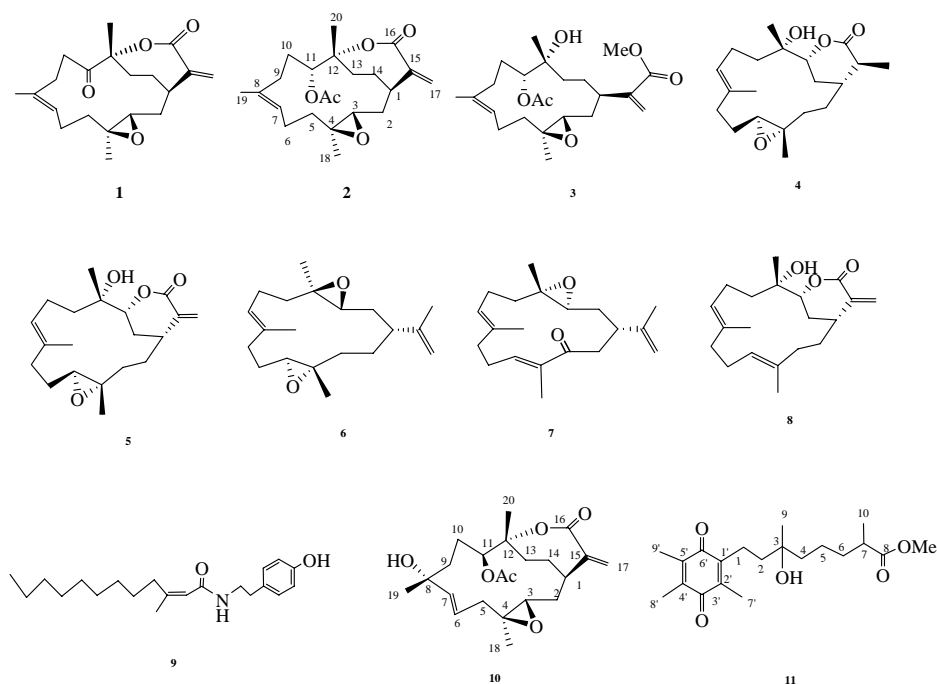
Study on the Natural Products of the cultured soft coral *Sinularia flexibilis*

Yu-Fang Lin (林妤芳) and Jyh-Horng Sheu (許志宏)

Department of Marine Biotechnology and Resources, National Sun Yat-sen University

In order to search for bioactive compounds, we have studied the chemistry constituents of organic extracts of the wild-type and cultured soft corals *Sinularia flexibilis*. The cultured soft coral was bred by National Museum of Marine Biology & Aquarium (NMMBA), Taiwan, in July 2006. This study had led to the isolation of ten natural products **1-11**, including three new cembrane-type diterpenoids. (**3**, **10**, and **11**) were identified as new compounds, other eight known compounds (**1-2** and **4-9**) have been discovered previously.

The cytotoxicity of compounds **1-2** and **4-9** was assessed against the following cancer cell lines: Hela (human cervical epitheloid carcinoma), Hep2 (human laryngeal carcinoma), Daoy (human medulloblastoma), and MCF-7 (human breast adenocarcinoma). Compound **5** exhibited the best cytotoxicity against the four cancer cell line. Also, metabolites **1** and **8** showed moderate to weak inhibition activity against these cancer cells. *In vitro*, compounds **1-2**, **4-10** were tested for the anti-inflammatory activity inhibited. It was found that compound **8** significantly inhibited the accumulation of the anti-inflammatory iNOS and COX-2 proteins of the LPS stimulated RAW264.7 macrophage cells at 10 μ M.



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