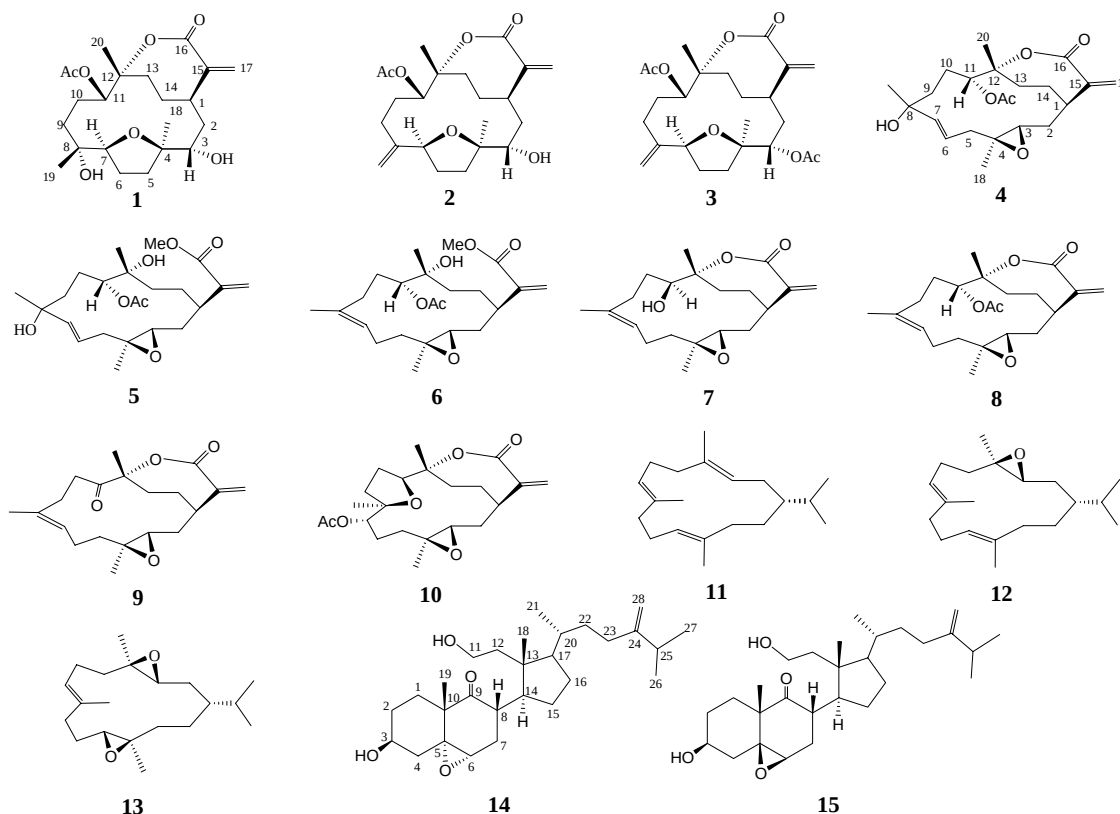


9,11-secosteroids and cembranoids from the soft coral *sinularia granosa*

Chiung-Yao Huang (黃瓊瑤) and Jyh-Horng Sheu * (許志宏)

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

Six new cembranoids, granoids A–F (1–6), one new 9,11-secosteroid (14) along with eight known analogues (7–13, 15) have been isolated from the soft coral *Sinularia granosa*. The structures of new metabolites were elucidated on the basis of extensive spectroscopic analysis and by comparison of their NMR data with those of the known compounds. The structure of **1** was further confirmed by single-crystal X-ray diffraction analysis. Furthermore, the absolute stereochemistries of **1–3** were established by application of Mosher's method on **1**. Among these metabolites, **1–3** are rarely found with 4,7-ether linkage of cembranoids. Cytotoxicity of **1–4**, **6**, **8**, **10**, **12**, and **13** against Hela (human cervical epitheloid carcinoma), Hep2 (human laryngeal carcinoma), Daoy (human medulloblastoma), and MCF-7 (human breast adenocarcinoma), cancer cells is also discussed.



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