

A Series of Acetylenic Compounds and a Novel Pyridinium Alkaloid from the Stony Coral *Montipora* sp.

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Our studies on marine organisms for the investigation of cytotoxic agents have resulted in the isolation of a series of interesting acetylenic compounds from the methanolic extract of the stony coral *Montipora* sp. In our continuing study on the cytotoxic metabolites from the same coral, a series of acetylenic compounds and a novel pyridinium alkaloid have been isolated. The structures were elucidated based on the analysis of ¹H, ¹³C NMR, and MS data. The nature of the isolated acetylenes was diverse comprising of montiporic acids and ester, α,β -unsaturated ketones, β -hydroxy ketones, cyclohexenone, and alcohols. However, all of them were saturated or unsaturated analogues of diacetylenes. Some of the acetylene compounds showed moderate to marginal cytotoxicity against a small panel of human solid tumor cell lines (A549, SK-OV-3, SK-MEL-2, XF498, and HCT15). One of the major analogues displayed inhibition on cell cycle and induced apoptosis in HCT cell.

[PD2-13] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

A New Spirobenzylisoquinoline Alkaloids from *Corydalis ochotensis*

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Previous studies on the chemical constituents of *Corydalis ochotensis* mainly dealt with the isolation of isoquinoline alkaloids such as ochotensine, yenusomine, corytenchin and adlumidine. And raddeanamine, aobamine, protopine and dihydrosanguinarine were isolated from *C. ochotensis* var. *raddeana*. For the isolation of isoquinoline alkaloids, n-butanol and chloroform soluble fractions were examined. Investigation on the two fractions afforded a new spirobenzylisoquinoline alkaloid, 8-O-acetylcorysolidine along with two known spirobenzylisoquinoline alkaloids.

[PD2-14] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

A New Dicaffeoyl Quinic Acid of *Ligularia fischeri* var. *spiciformis*

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The plant *Ligularia fischeri* var. *spiciformis* (Compositae) is a candidate for the available functional food. We have reported the isolation of a new eremophilanolide named 6-oxoeremophilanolide and cytotoxic intermedeol from this plant. As this plant was known to have antidiabetic ability in