

E2-28: Two acetogenins from *Annona reticulata* (Annonaceae)

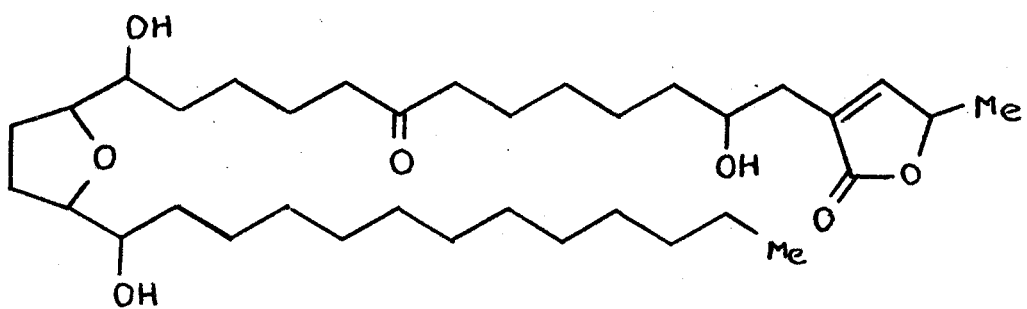
E M K Wijeratne¹, L B de Silva¹, W H M W Herath¹, Yasuhiro Tezuka², Tohru Kikuchi²

¹Div of Natural Products Chemistry, Medical Research Institute, Colombo 8,

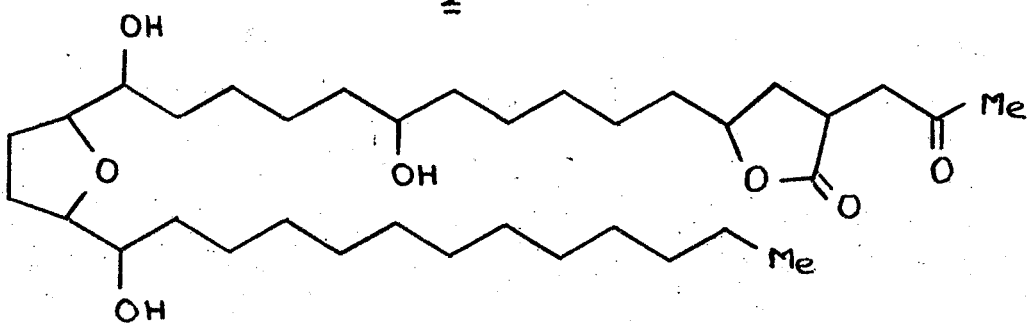
²Research Institute of Wakan-Yaku, Toyama Medical and Pharmaceutical Univ, Japan)

Recent investigations on the stem bark of *Annona reticulata* have led to the isolation of 2 known acetogenins. Further studies on the chloroform soluble fraction of the methanol extract of the stem bark resulted in the isolation of 2 more acetogenins and a azafluorenone alkaloid. The less polar acetogenin, m.p. 76-78 °C was identified as annonacin-10-one (I) and the other, m.p. 97-99 °C was identified as isoannonacin (II) from their spectral and physical data. The alkaloid was identified as 5,7-dihydroxy-6-methoxy-4-methyl-1-azafluorenone from its spectral data and by direct comparison with an authentic sample. Both acetogenins showed 100% lethality to the brine shrimps at a concentration of 20 µg/ml.

Financial assistance from Japan International Cooperation Agency is acknowledged.



I



II