# GERANYLATED PHENOLIC CONSTITUENTS FROM THE FRUITS OF *ARTOCARPUS NOBILIS*

U.L.B. JAYASINGHE AND G.K. RUPASINGHE

*Institute of Fundamental Studies, Hantana, Kandy*

In a continuation of our research work on bioactive secondary metabolites from Sri Lankan plants, we carried out chemical investigation of the fruits of *A. nobilis*. Chromatographic fractionation of the combined dichloromethane and the ethylacetate extracts of the fruits of *Artocarpus nobilis* furnished nine geranylated phenolic constituents including six new (**4-10**); 5,7,4'-trihydroxy-6-geranylchalcone(**1**), 5,7,4'-trihydroxy-6-[6-hydroxy-3,7-dimethyl-2(*E*),7-octadienyl]-chalcone(**2**), 5,7,3',4'-tetrahydroxy-6geranylchalcone (**3**), 5,7,4'-tri-hydroxy-6-[(*E*)-5-methoxy-3,7-dimethylocta-2,6-dienyl]-chalcone(**4**), 5,7,4'-trihydroxy-6-[(*E*)-2,3-dihydroxy-3,7-dimethylocta-6-enyl]-chalcone(**5**),1-[5-hydroxy-2-methyl-2-(4-methyl-3-pentenyl)-2H-1-chromen-6-yl]-3-(4-hydroxyphenyl)-propenone(**6**), 5,7,4'-trihydroxy-6-geranyl-2-hydroxy- dihydrochalcone(**7**), 5-hydroxy-2-(3,4-dihydroxyphenyl)-6-(*E*)-3,7-dimethylocta-2,6-dienyl)-4H-chromen-4-one(**8**), 5,7-dihydroxy-2-{4-hydroxy-3-[(*E*)-3,7 dimethylocta-2,6 dienyl] phenylchroman-4-one(**9**), 5,7-dihydroxy-2-{4,5-dihydroxy-3-[(*E*)-3,7-dimethylocta-2,6-dienyl]phenyl}chroman-4-one(**10**). All these compounds showed antioxidant activity against DPPH radical by TLC autobiography method.