



Research article

## Antioxidant properties of 5 herbal plants based of pharmacophore modelling

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### Abstract

Malaysian medicinal plants are known to exert therapeutic effects. We have evaluated some species namely *Moringa oleifera* (*M. Oleifera*), *Clinacanthus nutans* (*C. Nutans*), *Rhodomyrtus tomentosa* (*R. tomentosa*), *Arctium lappa* (*A. lappa*) and *Sonneratia alba* (*S. alba*) for their antioxidant properties assisted by using pharmacophore modelling approach. Major compounds were displayed from each plant namely; 3-caffeoylquinic, benzylglucosinolate, kaempferol, leucodelphinidin and quercetin from *M.oleifera*, adenosine, arctigenin, arctiin, and solasonine from *A. lappa*, 2-cis-entadamine A, phaeophytin, clinamides B, isovitexin, and vitexin from *C. nutans*, 5-hydroxymethylfurfural, aliphatic acid, betulin, methyl gallate, oleanolic acid from *S. alba* and lupeol, rhodomyrtone A, rhodomyrtone B, rhodomyrtone C and rhodomyrtone D from *R. tomentosa*.

**Key words:** Pharmacophore Modelling, Antioxidant properties, *Moringaoleifera*, *Clinacanthusnutans*, *Rhodomyrtus tomentosa*, *Arctium lappa*, *Sonneratia alba*, and Ligand-Based Pharmacophore.

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