



# Selection of Clusiaceae and Calophyllaceae extracts based on dereplication and anti-inflammatory properties

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Auteur	Rouger, Caroline [1], Derbré, Séverine [2], Charreau, Béatrice [3], Litaudon, Marc [4], Awang, Khalijah [5], Richomme, Pascal [6]
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Résumé en anglais	<p>Inflammation is associated with many pathogenic disorders including endothelial dysfunction. Calophyllaceae and Clusiaceae which are rich in polyphenolic compounds such as coumarins, xanthones, benzophenones and biflavonoids<sup>1</sup> are well-known for their anti-inflammatory properties<sup>2</sup>. Bark, leaves and occasionally fruits of thirteen plants belonging to the genus <i>Calophyllum</i>, <i>Mesua</i> (Calophyllaceae), <i>Garcinia</i> (Clusiaceae) and native from Malaysia, were extracted using DCM and MeOH as the solvents. Extracts of interest were selected according to two distinct criteria. Firstly, a dereplication analysis was conducted though HPLC-PDA-MSn. Secondly the VCAM-1 surface-expression of (TNF-<math>\alpha</math>)-stimulated endothelial cells from human umbilical veins (HUVECs) was evaluated. It appeared that several extracts particularly rich in xanthones and phenylcoumarins significantly decreased inflammatory marker expression. In this context, a new phenylcoumarin was identified as the major component of the bioactive fruits DCM extract from a <i>Mesua</i>.</p> <p>References:</p> <p>[1] V. Cechinel Filho et al. Chem. Biodivers. 2009, 6, 313-327 [2] J. Gonzalez-Gallego et al. Br. J. Nutr. 2010, 104, S15-S27</p>
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