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## Chemical composition, antioxidant, anti-inflammatory and anti-microbial activities of essential oil from *Citrus maxima* (Burm.) Merr.

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*Citrus maxima* (Burm.) Merr., commonly known as Shaddock or Pomelo, is an original citrus plant belonging to family Rutaceae. Essential oils of peels of four different cultivars (Giza, Jordan, Syria, and Alexandria) obtained by hydro-distillation and by Solid Phase Micro Extraction (SPME) were analyzed by Gas Chromatography coupled with Mass Spectrometer (GC/MS). Limonene was found to be the major constituent reaching a percentage of 97.4% (Giza), 93.2% (Jordan), 90.8% (Syria) and 87.2% (Alexandria). The hydro-distilled essential oils of leaves at four different seasons were similarly analyzed by GC/MS and showed that the percentage of hydrocarbons ( $\alpha$ -pinene, B-pinene,  $\alpha$ -phellandrene, camphene, sabinene, myrcene, cymene, limonene, careen, terpinine) were higher than that of oxygenated compounds (1-terpinen-4-ol, terpineol, santalol, eucalyptol, linalool, fenchone, citronellol, citral, eugenol methyl ether, bergamol) with no major constituent. Anti-inflammatory, antioxidant and antimicrobial activities of oils obtained from the peel were investigated.

### Biography

Camilia George Michel has completed her PhD benefiting from a channel system between Cairo University and Institute of Pharmaceutical Biology, Bonn, Germany. She is working as Deputy Manager at the Quality Assurance Unit of Faculty of Pharmacy, Cairo University and as External Evaluator at the National Authority for Quality Assurance and Accreditation for Education (NAQAAE) in Egypt, the only responsible authority for accrediting Higher Educational Institution in Egypt. She has published more than 20 papers in reputed journals and serving as an Editorial Board Member of reputed.

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