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NEW BIOACTIVE METABOLITES FROM *DAUCUS VIRGATUS* (APIACEAE) GROWING IN TUNISIA

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The biodiversity of the Mediterranean basin ecosystem is the most prolific sources of plant metabolites playing a pivotal role as starting precursors for drug discovery [1]. Tunisia has nearly 2100 vascular plant species, many of which are endemic, widely used for traditional health care and still largely unexplored [2]. As a part of our contribution to the discovery of new secondary metabolites with potent biological activities [3-5], we have been interested to the chemical and biological studies of the crude extracts of some medicinal plants from Apiaceae family. In this subject, the phytochemical investigation of the dichloromethanoic extract of *Daucus virgatus*, led to the isolation and identification of three new sesquiterpenoids. Their structures were elucidated by means of modern spectroscopic techniques such as 1 and 2D NMR and HR-ESIMS. All compound were evaluated for the antiproliferative effects against the melanoma cell line A375, the human breast adenocarcinoma cell line MCF-7, and the non-tumor cell line HACAT (Keratinocyte). Interesting selective activities were unveiled.

Biography

Saoussen Hammami is lecturer of Lecturer of Organic Chemistry, Faculty of Sciences of Monastir, Tunisia. She has published many papers in International Peer Reviewed Journals. Her current research work is dealing with chemical investigation of crude extracts from medicinal plants and marine organisms and with structure elucidation of pure natural products via 2D NMR and MS experiments. Research interests are chromatography, mass spectrometry, organic synthesis, high-performance liquid chromatography, liquid chromatography, synthetic organic chemistry, medicinal and pharmaceutical chemistry, extraction, spectrometry, antioxidant activity

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