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## BOOK OF ABSTRACTS

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## PURIFICATION AND STRUCTURAL CHARACTERIZATION OF COMPOUNDS ISOLATED FROM *CYSTOSEIRA ABIES-MARINA*

V. Gouveia,<sup>[a]</sup> A.M.L. Seca,<sup>[a]</sup> M.C. Barreto,<sup>[a]</sup> A.M.S. Silva,<sup>[b]</sup> and A. Kijjoo<sup>[c]</sup>

- [a] DCTD, University of Azores, Rua Mãe de Deus, 9501-801 Ponta Delgada, Azores, Portugal, veragouveia@uac.pt  
[b] Department of Chemistry & QOPNA, University of Aveiro, 3810-193 Aveiro, Portugal  
[c] ICBAS-Instituto de Ciências Biomédicas de Abel Salazar and CIMAR, University of Porto, 4099-003 Porto, Portugal

Natural products and their derivatives have historically been invaluable as a source of therapeutic agents. Chemical substances derived from animals, plants and microbes have been used to treat human diseases since the dawn of medicine.<sup>[1]</sup> In the last three decades the discovery of metabolites with biological activities from macroalgae has increased significantly.<sup>[2]</sup>

As a consequence of an increasing demand for biodiversity in the screening programs to obtain drugs from natural sources, there is now a greater interest in marine organisms, especially algae. The ability of seaweeds to produce secondary metabolites of potential interest has been extensively documented. There are numerous reports of compounds derived from macroalgae with a broad range of biological activities, such as antibiotic, antitumor, anti-inflammatory, as well as neurotoxic.<sup>[3]</sup>

Although the Azores archipelago is rich in algal communities, only two papers have been published concerning the nutritional and pharmacological potential of this resource in the Azorean sea.<sup>[4,5,6]</sup> As a brown alga *Cystoseira abies-marina* grows abundantly in the coast of these islands and has a great resistance to predation, which indicates the presence of potential active compounds<sup>[7]</sup>, we have investigated its secondary metabolites.

We report herein isolation and structure elucidation of several compounds from *Cystoseira abies-marina*, collected at Mosteiros (S. Miguel Island). The structures of the compounds were established by 1D (<sup>1</sup>H, <sup>13</sup>C, DEPTs) and 2D (COSY, HSQC, HMBC, NOESY) NMR techniques as well as HRMS.

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