Essential Oil Constituents of Valeriana italica and Valeriana tuberosa. Stereochemical and Conformational Study of 15-Acetoxyvaleranone Nikolas Fokialakis. Prokopios Magiatis.* and Sofia Mitaku

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The chemical composition of the essential oils obtained by hydrodistillation of roots, stems with leaves and inflorescences of Valeriana italica Lam. and Valeriana tuberosa L. were studied by GC/MS. Seventy-three and fourty-one constituents were identified from each plant, respectively. The major constituent of the oil obtained from the roots of V. italica was isolated and identified as 15-acetoxyvaleranone. Its stereochemistry and conformation has been studied using NMR spectroscopy and molecular modelling. The oils obtained from V. tuberosa completely lacked the characteristic valerane or kessane sesquiterpenes. Running title: Essential oils of Valeriana italica and V. tuberosa