



Seminar

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NMR spectroscopy of Natural Products. HPLC-MS and NMR: two complementary tools in quality control, fingerprinting of plant extracts and targeted isolation of new natural products

The basic NMR spectra will be presented and how these can be used in order to identify plant metabolites. Specific examples will be given from simple structures to more complicated ones. In the second part of the seminar examples of combination of both NMR and HPLC-MS will be presented and how the NMR data can be integrated with the MS for the precise identification of natural products and quality control of herbal medicinal products. In the last part of the talk it will be demonstrated how NMR and/or HPLC-PDA-MS can be used as tools through the isolation process for the identification of new naturally occurring natural products.

Anastasia Karioti is assistant professor at the Dept. of Pharmaceutical Sciences, Aristotle University of Thessaloniki, Greece, has a M.Sc. in Pharmacognosy of bioactive natural products from the University of Athens (UOA), Greece and a Ph.D. in the same sector from UOA, Greece. She served for eight years as Teaching and Research Assistant in Univ. of Florence, Italy (2007-2014). During her stay (2011-2014) she was charged with the development of analytical protocols for the preparation of European Pharmacopoeia Monographs of TCM herbal drugs (Working Party on Traditional Chinese Medicine by the Ph Eur Commission - EDQM). The main research activities are (i) isolation and structure elucidation of a vast variety of natural products by classical and modern analytical techniques, (ii) quality control of medicinal and aromatic plants and herbal medicinal products. She is author of 79 publications, h-index 21 (Scopus database).

Room 6302 – Palazzo della ricerca e della conoscenza

September, 05th, 2019 – 15:00-16:00



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