

# DAY 1

Keynote Forum



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## Pharmacognosy and Medicinal Plants

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## Mining plants and microorganisms for biologically active compounds: A combined synthetic and analytical approach

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Nature offers an inexhaustible pool of biologically relevant molecules crafted by evolution and working in unison. Extensive analyses of mixtures of naturally occurring molecules of plant and microbial origin enable us to locate the possible organisms for bioprospecting or biotechnological utilization. However, the classical approaches leave much unidentified and untested compounds especially when it comes to minor constituents. Numerous challenges make low abundance metabolites an unattractive target that requires the application and development of innovative analytical methodologies. We have repeatedly demonstrated that organic synthesis offers a new approach to the identification and biological evaluation of secondary metabolites. Coupled with an array of *in vivo* and *in vitro* pharmacological and toxicological assays, the creation of small synthetic libraries of compounds and the development/application of NMR and GC-MS based techniques for the identification

stereo-chemical assignment of compounds directly from their mixtures, has provided us access to a number of new lead molecules from plants and microorganisms of medicinal or other interest. In this lecture, examples of exploitation of such an analytical synthetic approach will be conveyed with a specific emphasis on volatile plant constituents from medicinal species and those regarded as functional food.

### Biography

Niko S Radulović currently working as a Full Professor of Organic Chemistry and Biochemistry in University of Niš, Serbia. He was also a Principal investigator for "Combinatorial libraries of heterogeneous catalysts, natural products, modified natural products and their analogues: A path to biologically active agents", funded by the Ministry of Education, Science and Technological Development of Serbia. His research interests include organic synthesis, medicinal chemistry, phytochemistry, NMR, HiFSA-ASIS-GIAO NMR-based methodologies, biologically active compounds, structure-activity relationship.

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## Aromatherapy Implementations

### Hulya Kayhan

Art de Huile, Turkey

**A**romatherapy is a technique used to prevent diseases by using volatile oil extracts which are obtained by the distillation technique of distillation, root and flower of the plants, which are completely organic and to support their own defense system by strengthening the immunity of the body. Although, aromatherapy is perceived as a new concept, it is a very old medical method in ancient times, discovered by the founders of medical science and published in literature. Aromatherapy provides a wide range of physical and emotional benefits compared to the essential oil or mixture oil. Essential oils used in aromatherapy have analgesic, antimicrobial, antiseptic, antipyretic, tissue and blood vessels tightener, sedative, antispasmodic and diuretic effects. In addition, these essential oils are used to treat a wide variety of symptoms and conditions, including digestive system disorders, skin

diseases, menstrual pain and irregularities, stress-related problems, mood-state disorders, circulatory problems, respiratory tract infections and wounds

### Biography

Hulya Kayhan after graduating from Istanbul University Faculty of Pharmacy, she went to London to make a Master's Degree in Pharmaceutical Technology. During her graduate studies at King's College, she took alternative therapies covering aromatherapy and phytotherapy. Aromatherapy attracted a lot of her interest and she began to intensify its work in this area. She took lessons from the greatest instructors of aromatherapy and meticulously scanned all resources in different languages, reinforced her mastery of aromatherapy, decided to create a brand. Today, she is the owner of "Art de Huile" which is the most popular brand on aromatherapy. She continues her works by organizing conferences on aromatherapy as well as by giving trainings to pharmacist colleagues and doctors and by joining panels. medical aromatherapy in Turkey, has led doctors to enter prescriptions.

