

5th International Conference and Exhibition on

PHARMACOGNOSY, PHYTOCHEMISTRY & NATURAL PRODUCTS

July 24-25, 2017 Melbourne, Australia



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Recent trends in medicinal and aromatic plant researches

Especially in recent years, natural products are preferred, used and sought after by everybody. In this context, most of the scientific studies have been focused on natural resources. Active principles of natural products can be obtained by different applications. These products are manufactured by flavor and fragrance industries and used in food, perfumery, cosmetics, pharmaceuticals and aroma-therapy sectors. However, in recent years, many of drugs have been produced from active ingredients of Medicinal and Aromatic Plants (MAPs). In conventional applications, these products or active compounds can be obtained by distillation, expression, extraction or separation from the plant matrix by some chromatographic techniques depending on the nature of the material. Nowadays, sophisticated techniques are employed in order to produce specialized extracts. Some of these techniques may not necessarily be used for the commercial production of essential oils but are considered as valuable new applications for micro-analysis of essential oils from plants or other biological materials. Biological activity of constituents is another important parameter during carrying out the isolation from natural products. This information is a guide for scientist. In this context, compound separation procedure along with activity control allows to determine and isolate correct constituent possessing activity. Time and cost of the product quality control is a key point of the final product.

Biography

Temel Ozek has graduated as a Chemical Engineer and completed two MSc degrees; one in Chemical Engineering and second in Pharmacy and also completed his PhD in Chemical Engineering. Presently he is the Director of Medicinal Plant, Drug and Scientific Research Center. His research work focuses on MAP distillation and extraction techniques for laboratory and industrial scale (SFE-CO₂, MW etc.), sophisticated analytical techniques (MD-GC/MS, UPC² and NMR etc.), design of commercial scale distillation and extraction systems. He has published more than 185 papers and was an Editor of *RNP/Essential Oils*.

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