Acta Chimica and Pharmaceutica Indica

Hemp seed Chemistry and Nutraceuticality

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Abstract

Hemp seeds (no-drug type of Cannabis sativa L.) have been a precious nutritive source for millennia in Chinese and European cultures. Indeed, the unusual abundance of essential n-6 and n-3 polyunsaturated fatty acids, high-quality proteins, carbohydrates masked for a long-time hemp seeds phenol and cannabinoid baggage, whose recovery and bioactivity allowed us to define these little plant entities a valuable network of nutritional and nutraceutical compounds. This talk aims to provide a detailed and updated background for researches on the seeds of this niche crop, paying attention on their phytochemicals chemistry, which represents the basis of a new value chain for the sustainable development and the genesis of innovative products in food and nutraceutical sectors.

Biography

Severina Pacifico is Associate Professor in Food Chemistry at the University of Campania "Luigi Vanvitelli" (Italy). Her research interest, in the field of Natural Products and Food Chemistry primarily aims to the phytochemical study of medicinal and/or edible plants; to the chemical characterization of secondary metabolites by spectroscopic and spectrometric techniques; to UHPLC-HRMS/MS metabolic profiling and fingerprinting of natural extracts; and to the evaluation of antioxidant, chemopreventive and neuroprotective properties of natural products (phytocomplexes and secondary metabolites therein). She is President of the Master Degree Course in Food Sciences and Human Nutrition at the Department of Environmental, Biological and Pharmaceutical Sciences and Technologies of the University of Campania "Luigi Vanvitelli". She has over 114 publications that have been cited over 2000 times, and her publication Hindex is 28 and has been serving as an editorial board member of reputed Journals.

Publications

1. [Molecules] Special Issue: Natural Products Chemists: Leaving Our Lab in Covid-19 Emergency
2. Special Issue "Industrial Hemp Chemistry and Nutraceutical Perspectives"
3. Effect of abiotic stresses on plant metabolism

10th World Congress on Chemistry & Medicinal Chemistry | Rome | Italy | 28-29 February, 2020

Abstract Citation: Severina Pacifico, *Hemp seed Chemistry and Nutraceuticality*, Chemistry 2020, 10th World Congress on Chemistry & Medicinal Chemistry, Rome, Italy, 28-29 February, 2020, 39