



BOOK OF ABSTRACTS

First Legume Society Conference
2013: A Legume Odyssey

9-11 May 2013, Novi Sad, Serbia

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Book of Abstracts

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International Legume Society
Institute of Field and Vegetable Crops, Novi Sad, Serbia
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Getting the message out: grow, use, feed and eat legumes

Potential of chickpea (*Cicer arietinum* L.) as an oil crop

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The production of vegetable oils has been registering a constant increase of production and soybean is the largest source of vegetable oil in crop production globally. In addition to soybean, other legume species have the potential, in addition to the basic product-protein, to be a source of vegetable oil. One of these species is the chickpea. It is necessary to analyze the content and composition of the oil to determine the potential of chickpea as a source of oil. Four different genotypes of chickpea from the collection of the Institute of Field and Vegetable Crops in Novi Sad were tested in 2010. Oil and protein content were measured and it was found that the highest oil content was in genotype 3 (5.43%), and highest protein content in genotype 4 (24.15%). Fatty acids composition in chickpea seed is very specific, and the presence of rare fatty acids, such as capric and lauric, and high content of saturated fatty acids - palmitic. The obtained preliminary results indicate that chickpea is of potential use as a source of oil intended for specific types of manufacturing industries, primarily in the pharmaceutical and confectionery industries, as well as cold-pressed oils, which could justify oil extraction through their value, as a by-product in the production of proteins.

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In the rich world of global agriculture, diverse legumes can play key roles to develop environment-friendly production, supplying humans and animals with the products of high nutritional value.

The Legume Society was initiated in 2011 with two primary missions. One of them was to treasure the rich legume research tradition of the European Association for Grain Legume Research (AEP), with emphasis on carrying out its the triennial legume-devoted conferences. Another one is to fulfill a long-term strategy of linking together the research on all legumes worldwide, from grain and forage legumes pharmaceutical and ornamental ones and from the Old World to the Americas.

We do anticipate that the First Legume Society Conference will be a unique and genuine contribution to our common goals: to promote the legume research and all its benefits into all spheres of the society, linking science with stakeholders and decision-makers, and to demonstrate how an efficient, useful and firm network of the legume researchers of the world is possible and sustainable.

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