



# **BOOK** of **ABSTRACTS**

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**National Institute of Republic of Serbia, University of Belgrade**  
**Faculty of Biology, University of Belgrade**

**BOOK OF ABSTRACTS**  
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## Phytohormone Profiling of the Potato Plants Exposed to French Marigold Essential Oil

PP2-31

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French marigold (*Tagetes patula* L.) is a common companion plant for many vegetable crops because of its repellent effects on herbivorous insects and other pests. However, little is known about the effects of its essential oil (EO) volatiles on crops physiology. Given the importance of phytohormones in integrating signals and regulating vital processes in plants, this study focused on phytohormone profiling of potato (*Solanum tuberosum* L.) plants exposed to French marigold EO for different time periods (4h, 8h, and 12h). Results of LC-MS analysis showed alterations in accumulation of different phytohormones and/or their metabolites after exposure to EO, with the most pronounced change observed for stress-related phytohormones: ABA's metabolite ABA-glucose ester, ethylene precursor 1-aminocyclopropane-1-carboxylic acid, and jasmonic acid. In most of the analyzed phytohormone groups similar response pattern was observed – an increase in levels after short time exposure (4h), followed by a decrease to control values after prolonged exposure (8h and 12h). In order to present changes in activity of the genes included in metabolism of phytohormones after 8h long exposure, a detailed analysis of data from a previous microarray study was performed. These results revealed jasmonic acid biosynthetic pathway as the most affected one, with the highest number of altered transcripts and with one of the genes from this pathway (*12-oxophytodienoate reductase 1-like*) having highest expression rate. In the future, the data obtained from this comprehensive analysis may help to understand the effects of EO on the physiology and defense strategy of exposed plants, and subsequently predict plant responses.

**Keywords:** potato, French marigold, essential oil, volatiles, phytohormones

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