

**Faculty of Agriculture
Goce Delcev University - Stip**



**1st INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE (ASP 2018)**

BOOK OF ABSTRACTS

**10th - 11th May 2018
Stip, Republic of Macedonia**

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**1st INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2018**

Organized by

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF MACEDONIA
10-11 May 2018, Stip, Republic of Macedonia**

In the past ten years the educational, research and applicative activities of the Faculty of Agriculture – Stip, Goce Delcev University – Stip, contributed to the development of agriculture sector in the country and broader region.

The Faculty of Agriculture organizes the 1st International Meeting Agriscience & Practice (ASP 2018), giving an opportunity to the participants for presentation and discussion of original scientific and practical results in different fields of agriculture.

The 1st International Meeting Agriscience & Practice (ASP 2018) is organized with intention to bring together all agricultural stakeholders for sharing their knowledge, experience and obstacles. One of the main aims is to link research and field work in agricultural sector in the country and broader, giving it an international dimension.

The main goal of the Meeting is to connect and promote scientific achievements and practical knowledge presented in different thematic areas.

We are pleased to welcome you at the Faculty of Agriculture and we wish you active participation in the Meeting.

**President of the Organizing Committee
Prof. d-r Ljupco Mihajlov**

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BOOK OF ABSTRACTS
SECTION: PLANT PRODUCTION

**EXAMINATION OF SOME QUALITY FEATURES OF OATS GROWN IN
CONDITIONS OF ORGANIC PRODUCTION** Adrijana Burovska¹, Dragica
Spasova^{1*}, Biljana Atanasova¹, Dusan Spasov¹, Mite Ilievski¹

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Abstract

The research was conducted in 2015 and 2016 on 11 oats genotypes in terms of organic production. Three of the varieties were domestic: *Krivogastani*, *Trebenista* and *Kuceviste*. The rest were international varieties, including *Rajac*, *Slavuj* and *Lovcen* from Serbia and the areas *Kupa*, *Baranja*, *Explorer*, *Sampionka* and *Istra* from Croatia. In the first year of the study, the energy of germination of oats seed of oats ranged from 70% in *Rajac* variety up to 96% for the *Kupa* variety. In the second year of the study, the energy of germination was 81% for the *Kupa* variety to 96% in *Istra* variety. Compared between areas, it is pointed out that there are statistically significant differences. The total germination of oat seeds, cultivated under conditions of organic production, is statistically different between different genotypes, in both years of research. In 2015, the *Rajac* variety showed minimum germination (70%), and in 2016, the *Lovcen* variety (82%). *Krivogastani* variety showed the greatest overall germination in both experimental years (96% in 2015 and 97% in 2016). Regardless the year and the method of production, the best genotype of the tested variants for the highest absolute mass of grain is proved in the variety *Istra* with 34,6g in 2015 and 29,6g in 2016. The smallest absolute mass in both experimental years had the *Krivogastani* population, 12.3g in 2015 and 14.9g in 2016. There is statistically significant difference between varieties.

Key words: variety, population, energy of germination, germination, absolute mass