



Društvo genetičara Srbije


[Naslovna](#)
[O društvu](#)
[Sekcije](#)
[Izdavaštvo](#)
[Skupovi](#)
[Članstvo](#)
[Kontakt](#)

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Počasni urednik

Kosana Konstantinov, Beograd, Srbija

Urednik

Snežana Mladenović Drinić, Beograd, Srbija msnezana@mrizp.rs, genetika@dgsgenetika.org.rs

Izdavački savet:

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INFLUENCE OF GENOTYPE AND NITROGEN NUTRITION ON GRAIN SIZE VARIABILITY IN SPRING MALTING BARLEY

Vladanka STUPAR¹, Aleksandar PAUNOVIĆ², Milomirka MADIĆ²,
Desimir KNEŽEVIĆ³

¹Higher Education Technical School of Professional Studies Požarevac, Požarevac, Serbia

²University of Kragujevac, Faculty of Agronomy, Čačak, Serbia

³University of Priština, Faculty of Agriculture, Kosovska Mitrovica, Lešak,
Kosovo and Metohija, Serbia

Stupar V., A. Paunović, M. Madić, D. Knežević (2017): *Influence of genotype and nitrogen nutrition on grain size variability in spring malting barley*.- Genetika, Vol 49, No.3, 1095-1104.

Grain size is an important quality parameter of malting barley, which depends on genotypes, environmental factors and their interactions. Also, grain size is governed by the efficiency of assimilation and translocation of mineral nutrients (mainly nitrogen) during grain endosperm development, which affects grain yield. The aim of this study was to evaluate variability in the percentage of three different grain size classes: class I (thickness ≥ 2.5 mm), class II (2.2-2.5 mm) and class III (< 2.2 mm) in spring malting barley genotypes ('Novosadski 448', 'Novosadski 456', 'Dunavac' and 'Jadran'). The experiment was conducted during three years (2012-2014) in a randomized complete block design with three replications at different rates of nitrogen fertilization ($N_1=45$, $N_2=75$, $N_3=105$ and $N_4=135$ kg ha⁻¹). The presence of different grain sizes in barley cultivars in all N fertilization treatments after harvest was

Corresponding author: Aleksandar Paunović, University of Kragujevac, Faculty of Agronomy, Čačak, Serbia, Cara Dušana 34, 32000, Čačak, Serbia, Phone: +381 32 303416, e-mail: aco@kg.ac.rs