

# PHENOTYPIC EVALUATION OF SOME SPRING NAKED OAT LINES IN THE PEDOCLIMATE CONDITIONS OF NORTH-EAST MOLDOVA

Violeta SIMIONIUC<sup>1</sup>, Danela MURARIU<sup>2</sup>, Domnica Daniela PLĂCINTĂ<sup>2</sup>, Tiberiu-Emilian SĂRBU<sup>1</sup>, Iulian GABUR<sup>1</sup>, Dănuț-Petru SIMIONIUC<sup>1</sup>

e-mail: simion@uaiasi.ro

---

## Abstract

The testing of some spring naked oat lines (*Avena sativa* ssp. *nudissativa*) from the collection of the Suceava Plants Genetic Resources Bank in the pedoclimatic conditions of the Ezăreni farm in Iași county aimed to evaluate some morphological characters used both as descriptors by the Gene Banks, as well as component elements of the production capacity, in order to carry out a breeding program for this species. Thus, for the five lines tested, the values of morphological characters such as plant height, number of siblings per plant, number of spikelets per panicle, number of seeds per spikelet, number of seeds per plant and weight of seeds per plant were determined. The data were used to evaluate the intra-population variability (means, amplitude of variation and coefficients of variation) and inter-population (means and amplitude of variation), the results highlighting a pronounced variability for all the analyzed characters, both at the intra-population and inter-population level.

**Key words:** plant breeding, naked oat, interpopulation variation, intrapopulation variation, morphological characters