



## Incidence of some *Fusarium* species artificial inoculated on different oat cultivars

Domnica Daniela PLĂCINTĂ, Danela MURARIU, Dan Mihai GIURCĂ - Bank of Plant Genetic Resources, Suceava

Evaluation of oat genetic resources for resistance to *Fusarium* sp., was done by highlighting relevant agronomic traits in the manifestation of infection. The biological material used for the experiment was represented by 330 species of *Avena* ssp. (288 *A. sativa*, 8 - *A. byzantina*, 15 *A. strigosa*, 2 *A. abyssinica* and 17 wild species) from the collection of work of the European Project "Avena Genetic Resources for Quality Avena-human consumption"(AVEQ-AGRI GEN RES 061). Resistance testing was effected in the experimental field in 2008 through artificial inoculation of the panicles in three different periods of the stage of flowering with inoculum composed of species that: *F. culmorum*, *F. graminearum*, *F. sporotrichioides*, *F. langsethiae*, *F. avenaceum*. The results obtained were determined on the basis of the symptoms emphasized by fungi in test plots, through the correlations made between their incidence on kernel and panicles and some morphological characters such as the days to heading, panicle length, panicle number per m<sup>2</sup>, days to maturity and 1000 grain weight.