

The efficiency of plant resistance to abiotic stresses in the environment with combined action of many stressors supervisor assoc. prof. A. Nosalewicz

In field conditions crops are usually exposed to more than one stressing factor. Expected increasing intensity and frequency of droughts with climate changes will be accompanied by other abiotic stresses resulting in decreased stability of crop yields. Plants evolved mechanisms of resistance to abiotic stresses however owing to the complex nonlinear interactions between a plant and its environment, it is difficult to evaluate the effect of multi-stress on plant functioning.

The aim of the research is to analyse plant response to combination of drought and another accompanied abiotic stress. The focus will be on efficiency of mechanisms of plant resistance to drought is altered by other stressors.

The evaluation of the plant response to these stressing factors will be evaluated in laboratory experiment on important crop and model plants in strictly controlled environment.