

# Laboratory of Quantitative Genetics

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## **Research topics:**

- Production of haploids from cereals and species of *Miscanthus* genus,
- Development of methods facilitating the application of different generations and homozygous populations in the analysis of inheritance of quantitative characters,
- Analysis of structure of genotype-environment interaction and the determination of sensitivity of genotypes to variable environmental conditions,
- Application of molecular markers in genetic analysis of quantitative characters,
- Biometric and molecular analyses of effects of linkage and pleiotropy in wheat and barley,
- Development of methodology for the shortening of the breeding cycle of winter cereals,
- Generation of haploid and polyploid forms in *Miscanthus* species and cereals.