



**AREA**

**ADVANCING RESEARCH IN AGRICULTURAL AND FOOD SCIENCES  
AT FACULTY OF AGRICULTURE, UNIVERSITY OF BELGRADE**



**AREA group FRUITBREED  
FRUIT BREEDING GROUP**

**Field: FRUIT AND GRAPEVINE BREEDING**

**HYBRIDIZATION, GENETIC RESOURCES, CLONAL SELECTION, BIOLOGY OF FERTILIZATION, DNA ANALYSIS**

**Research and commercial expertise of FRUITBREED group**

- Creation of new varieties of fruit trees and grapevine with high yield, fruit quality and resistance to biotic and abiotic stress factors
- Research, collection and utilization of genetic resources, particularly autochthonous varieties of fruit trees and grapevine, in production and breeding purposes
- Selection of promising clones and improving the healthcare purity of certain varieties of fruit trees and grapevine
- Examination of the processes involved in the biology of fertilization of fruit trees and grapevine, with special emphasis on sterility and sexual incompatibility
- The use of biochemical and molecular markers for the identification of varieties and rootstocks of different fruit species and grapevine important for nursery production



**Equipment, techniques, methods and analyses for which FRUITBREED group has expertise**

- Different techniques of crossing, production, care, selection and evaluation of hybrid seedlings
- Techniques in-situ, on-farm and ex-situ conservation of genetic resources
- Different methods of healthcare and genetic selection clones
- Laboratory with equipment for a complete physical, chemical and organoleptic analysis of fruits
- Laboratory for light, fluorescence and electron microscopy (scanning and transmission)
- Laboratory with equipment for analysis of isoenzymes and DNA markers (SSR, RFLP, AFLP, RAPD, SNP)

**Contact - Team leader**

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