



**AREA**

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



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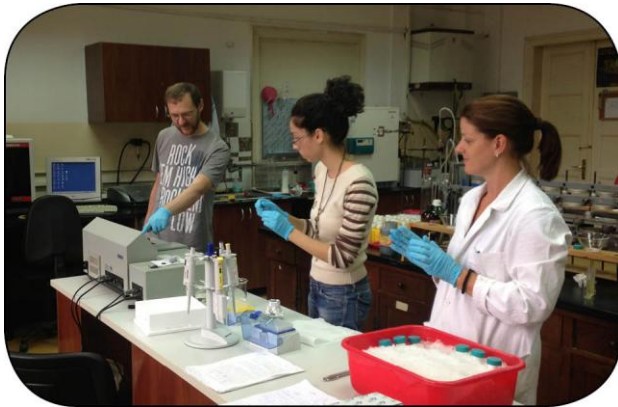
## ***AREA project group PLANTPHYS***

**Research area: *Crop physiology***

### **PLANT STRESS PHYSIOLOGY**

#### ***Ekspertise***

- Effects of abiotic stress factors on plants and measurements of the degree of stress
- Mechanisms of plant resistance to drought and other abiotic stress factors
- Plant water regime and optimization of irrigation
- Phenotypic and genotypic characterizations of drought resistant genotypes and application of these traits in breeding programmes
- Measurements of accumulation of stress hormone abscisic acid (ABA)



#### ***Equipment and techniques, methods and analysis***

- Measurements and analyses of plant water regime (Scholander pressure chamber, porometers)
- Measurements of leaf area and roots (Li - COR, Area meter and Root scanner CI-600 Digital Root Imager)
- ELISA spectrophotometer
- Fluorometer (FORCE A Dualex) for measuring the chlorophyll, anthocyanin, flavonol and nitrogen indexes
- RT-PCR system and other equipment for molecular research
- Theta, TDR and profile probes for measurements of soil water content
- Plant growth chambers

#### ***Contact - Team leader***

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