



AREA

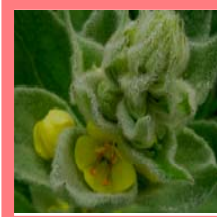
ADVANCING RESEARCH IN AGRICULTURAL AND
FOOD SCIENCES AT FACULTY OF AGRICULTURE,
UNIVERSITY OF BELGRADE



Stress physiology laboratory

University of Belgrade - Faculty of Agriculture

Current research interest:



✓ Stress signalling mechanism and the importance of hydraulic and chemical signals for the reactions of stomata and plant growth to drought.



✓ Theoretical basis and practical application of water saving irrigation strategies (partial root zone drying-PRD and deficit irrigation-RDI) for growing tomato, potato and grape.



✓ Biochemical aspects of tomato fruit growth under drought, RDI and PRD conditions.

✓ Molecular and physiological aspects of crop stress tolerance and top-down approach (phenotype to gene) for breeding drought resistant varieties of tomato and pea.

✓ Effect of drought and drought resistance of quinoa.



✓ Molecular and physiological aspects of drought and oxidative stresses effects on different plant species.



Research facilities:



Steady- state porometer



Centrifuge (Sigma 2-16K)



Facilities for soil water content measurements (TDR, Theta and profile probes)



ELISA
spectrophotometer
(Tecan, Sunrise)



Scholander pressure
chamber



Microscope (Olympus)



RT-PCR (7500 Real Time PCR System)

Working team:

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