



AREA

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



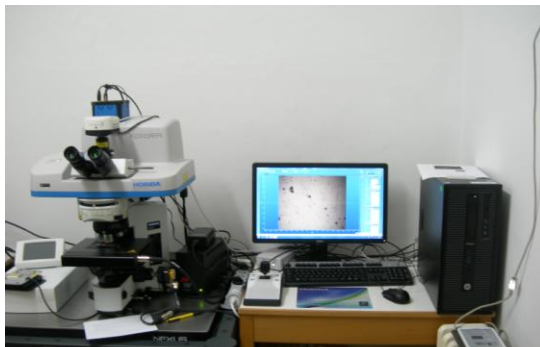
Research group: *FUNCROPS*
FUNCTIONAL CROP ANATOMY GROUP

Field: *Plant anatomy*

Effect of biotic and abiotic stress factors on plant structure, functional plant anatomy, image analysis

Research and commercial expertise of FUNCROPS grup

- Investigations of the influence of biotic and abiotic stress factors on development of vegetative and generative organs of crop plants at morphological and anatomical level
- Cytological and histological analysis of plant organs
- Micromorphological features of plant surface and histochemical investigations of medicinal, spice and melliferous plants
- Using softwares in Image analysis
- Fluorescence microscopy and Raman microscopy, chemical imaging



Equipment, techniques, methods and analyses

- Tissue processor, paraffin dispenser with integrated hot plate, cold plate – automated procedure for preparing samples for anatomical analysis
- Vibrating blade microtome, cryomicrotome, sliding microtome- for thin sectioning fresh and fixed samples
- Automatic slide stainer – staining sections for light and fluorescence microscopy
- Stereomicroscope and upright bright field microscope- analysis of surface and internal structure

Contact - Team leader

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