



AREA

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



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**AREA group MICRODIAG
PLANT VIRUS AND FUNGUS MOLECULAR DIAGNOSTICS GROUP**

Field: PHYTOPATHOLOGY

**DIAGNOSTICS OF VIRUS AND FUNGUS DISEASES, MONITORING OF QUARANTINE AND
ECONOMICALLY IMPORTANT PATHOGENS, POPULATION GENETICS**

Research and commercial expertise

- Conventional, serological and molecular identification and characterization of plant pathogens
- Survey for viruses and fungi of important vegetable, ornamental and forest crops
- Quarantine pathogen monitoring for the Ministry of Agriculture and Environmental Protection
- Investigation of tospoviruses on vegetables and ornamentals, characterization of viruses of cucurbits, tobacco, tomato, onions and other vegetables, as well as characterization and investigation of population structure of *Tomato spotted wilt virus* and *Cucumber mosaic virus*
- Identification and characterization of fungi belonging to the genera *Alternaria*, *Fusarium*, *Podosphaera* and *Phytophthora*



Equipment, techniques, methods and analyses

- Thermal cycler for PCR and RT-PCR, molecular detection and identification of pathogens
- ELISA reader for DAS-, TAS-, PTA-ELISA tests for routine detection of plant viruses and fungi
- Optical microscope for morphological identification of plant fungi
- Deep freezer for long time storage of samples
- Greenhouse for bioassay, resistance/susceptibility to viral and fungal infection, maintaining collection of viruses

Contact - Team leader

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