



**AREA**

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



## **AREA group: PHYTOBAC**

### **Research field: PHYTOBACTERIOLOGY**

***Specific research field and activities:* DIAGNOSIS OF BACTERIAL DISEASES; DETECTION, IDENTIFICATION AND CHARACTERIZATION OF PHYTOPATHOGENIC PROKARYOTES; BIOLOGICAL CONTROL**

### **Research and commercial expertise**

- Detection and identification of plant pathogenic prokaryotes using classical and molecular techniques
- Development and optimization of new diagnostic procedures for phytopathogenic prokaryotes
- Studying biocontrol agents for bacterial disease control
- Providing laboratory analysis of plant material for the presence of plant pathogenic prokaryotes for the Ministry of Agriculture, Forestry and Water Management, phytosanitary service, companies and farmers
- Monitoring of agricultural crops for the presence of quarantine plant pathogenic prokaryotes



### **Equipment, techniques, methods and analyses**

- Ultra-low temperature freezer (-80°C) for storing plant material, DNA, and bacterial cultures
- Incubator
- Light microscope
- Autoclave
- Laminar flow hood
- Thermal cycler for PCR analysis
- Submarine electrophoresis units with power supply system
- UV Transilluminator and Gel Documentation System
- Other equipment: waterbath; analytical and technical balance; magnetic stirrer; pH-meter; centrifuge; mini shaker; orbital shaker; turbidimeter, ELISA reader

### **Contact - Team leader**

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