

## **PLANT PROTECTION**

### **Herbology and Pesticide Chemistry**

- Examinations of germination biology in accredited laboratories
- The examination of the biology, allelopathic influence and mineral nutrition of annual and perennial weeds
- The examination of the herbicide sensitivity of cultivated plants and weeds in greenhouse and arable land experiments
- The development of the integrated weed control programme of arable and horticultural cultures
- Research the relationship between land cultivation, nutrition supply and weeding
- The examination of weed control impacts of new herbicides in arable and horticultural cultures and plantations

### **Hygiene**

- The analysis of the individual and compound poisonous effects of pesticides and heavy metals in bird embryos
- The analysis of the irritative effects of pesticides with in vitro methods
- The evaluation of the food and health hazards of pesticide residues

### **Plant Pathology**

- The examination of viral and fungal diseases of cultivated plants.
- Researching the sources of virus resistance in the *Solanaceae plant family*
- Analysis of the role of weeds in the epidemiology of plant viruses
- Analysis of the spread of plant viruses in the Hungarian vineyards and their role in off vine destruction.
- The examination of plant viruses infecting cereals
- The identification of plant viruses by symptomatology, serology and molecular genetics.
- The complex examination of the fungal diseases of walnuts and their plant protection
- The examination of the diseases of medicinal and spice plants
- Assessing the possibility of biological protection in the struggle against white mistletoe

### **Plant Protection Zoology**

- Assessing the influence of ecological factors on the life activities of pest insects
- Analysing the racial composition of predators (spiders) living in plant cultures
- The assessment of the effects of insecticides
- Survey of the insect fauna of organic apple plantations and working out a new protection strategy
- The examination of rape pests
- The examination of phytophagous arthropods living on reeds