



Agricultural Institute of Slovenia

UNDERSTANDING OF THE REQUIREMENTS OF PM 7/98

11.2.2019

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Agricultural Institute of Slovenia

**QUALITY MANAGEMENT
IN THE DIAGNOSTIC LABORATORIES OF
THE PLANT PROTECTION DEPARTMENT OF
THE AGRICULTURAL INSTITUTE OF SLOVENIA**

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The Plant protection department at the Agricultural Institute of Slovenia

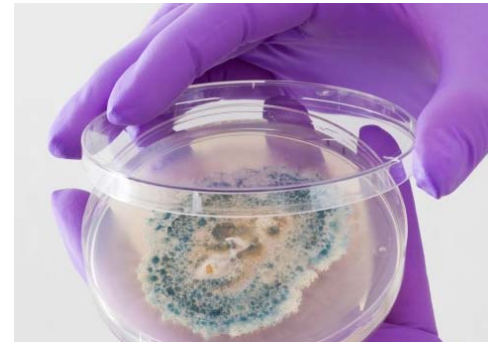
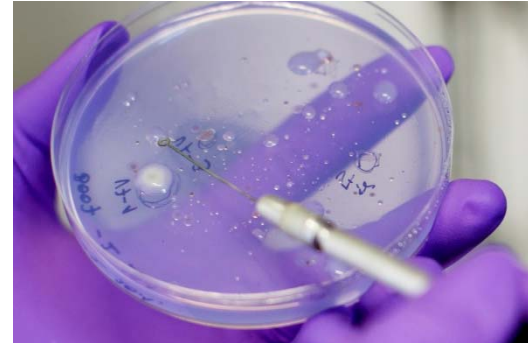
Research and expert work related to **control of plant diseases and pests** that directly affect the health and production of plants.



- sustainable agriculture and environmentally-friendly plant protection technologies that are based on the implementation of measures for decreasing the risk due to the use of pesticides and implementation of the principles of integrated plant protection;
- risk assessments, studying bionomy, morphological and genetic studies of the economically most important species of pests;
- interactions between the host plants and various plant pests or abiotic stress;
- diagnosing, developing and implementing new laboratory methods for the harmful organisms diagnostics.

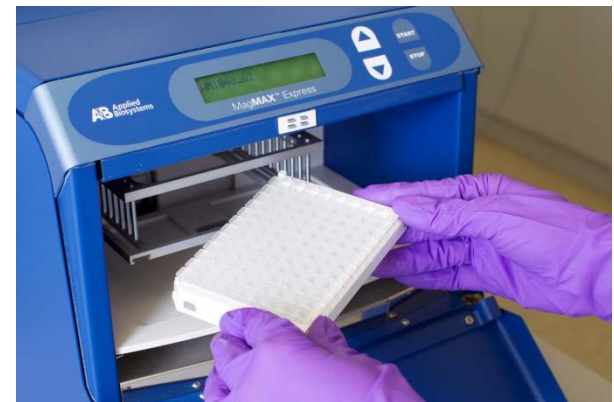
Diagnostic laboratories

- Virology,
- Bacteriology
- Mycology
- Nematology
- Entomology
- Remote sensing



Diagnostic methods

- Extraction
- Morphometrics
- Isoenzyme electrophoresis
- ELISA
- PCR, qPCR, PCR-RFLP
- barcoding, sequencing...
- ... about 100 methods for
- different viruses, bacteria, fungi, arthropods & nematodes





Quality



meeting the requirements



Agricultural Institute of Slovenia

Certificate ISO/IEC 9001:2015

EPPO standards

... Accreditation ISO/ICE 17025:2017

Two methods for accreditation

1. Detection and identification of potato cyst nematodes (PCN)
 - a) extraction from soil
 - b) morphometrical identification
 - c) molecular identification with qPCR

2. Detection and identification of Wheat Dwarf Virus (WDV) by ELISA in cereals

Our concerns

1. How often should we perform a ring test?
2. How often do we need to validate performance of the microscope?
3. Does the diagnostician need to be habilitated every year?
- ...

Our chalanges

1. Financial aspect
2. Time/staff
- ...