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INRA and IFV have merged their skills and facilities to build an experimental platform dedicated to the evaluation of grapevine biocontrol products (UMTSeven). The platform, located at Bordeaux, hosts projects that promote biocontrol solutions for grapevine diseases management. The aim is to foster the public/private partnerships within the beneficial scientific environment of the Institute of vine and wine science of Bordeaux (ISVV). The platform is supported by the Carnot Plant2Pro Institute and included in the XP-BC project of the Biocontrol consortium.



## Skills

- Knowledge of the biology of grape pathogens
- Collections of characterized isolates
- Artificial contaminations (lab, greenhouse, vineyards)
- Disease epidemiology
- Fine characterization of biotic interactions at different spatial scales (from laboratory to field)
- Innovative tools for the characterization of the physiological state of grapevine
- Microclimate assessment

## Missions

- Monitor scientific and technological advances
- Develops new tools and protocols
- Conduct experiments from lab to vineyards
- Propose optimal strategy for biocontrol products
- Provide training to partners

## Facilities

- 2 ha with sensitive and resistant varieties for field trials
- 300 m<sup>2</sup> of greenhouse for semi-controlled cond.
- Phytotron and growth rooms
- High-throughput real time qPCR system

## The offer

### BIOASSAYS

- Doses-responses Curves (CMI et CI<sub>50</sub>)
- Preventive / Curative Action Duration of action
- Confrontation – competition tests
- Toxin production (HPLC + genes)
- Volatile compounds
- Microorganism survival conditions
- Diagnostic tools for detection / quantification

### FIELD TRIALS

#### Epidemic monitoring

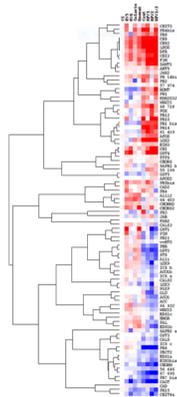
- Natural contaminations
- Artificial contaminations

#### Grapevine physiological status

- Phenological stages
- Vegetative expression (Greenseeker – NDVI)
- Harvest yield and quality
- Micro-vinification

### MODE OF ACTION

- **Resistance inducer**
  - « BioMolChem » chip
  - « NeoVigen » chip
  - Polyphenols (Dualex, HPLC)
- **Biostimulant**
  - Vegetative/root growth (greenhouse)
  - Primary metabolism assessment



The platform is accredited to conduct tests for the approval of new products (Licensed BPE - good experimentation practices).

