



Evaluation of biocontrol products for seeds and seedlings

Biocontrol



Production of inoculum

For laboratory and company internal trials

- On grains for substrate contamination
- On seeds
- On liquid medium
- In petri dish
- On plants
- Isolated pathogens



Pathogen viability test

Determines if a pathogenic agent is present, alive and harmful in *in vitro* condition after treatment

- By staining
- By germination on growing medium



Biotest

Evaluation of efficiency of biocontrol products for seeds and seedlings

- Disease incidence
- Grow-out and PCR detection *in planta*



Germination test under controlled conditions

Verification of seed germination capacity after treatment

- Evaluation of seedling growth



Coating quality test

Evaluation of representative criteria of coating quality

- 3D x-ray tomography



Contact: service.clients@geves.fr



Adapted solutions to support your research projects

Contact: geoffrey.orgueur@geves.fr

More than **300** pests and pathogens
More than **2500** isolates incl. **400** standard isolates
Bacteria-Fungi-Virus-Nematodes-Aphids




Species concerned





Our Recognitions & Partnerships:

- Member of the French Biocontrol Consortium 
- Cofounder and member of BiBios, a French group of experts on biocontrol and biostimulation of seeds

- A broad partnership:



✓ EPPO

✓ ISTA

✓ ISHI-Veg

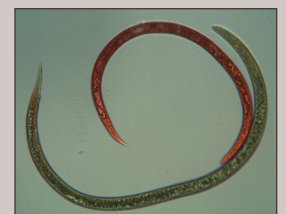
✓ INRA

✓ UFS

✓ RMT Veg-Diag

Our Expertise & Experience:

- Over 100 host/pathogen and pest combinations available in our laboratories
- Tests conducted on naturally or artificially contaminated soil, seeds and seedlings
- Development and improvement of new methods:
 - ✓ *In vitro* and *in vivo* tests
 - ✓ Early detection using biotests + PCR
 - ✓ Phenotyping
- Participation in national and international research programs
- Validation of methods through evaluation of performance criteria



Our Teams & Equipment:

- Multidisciplinary teams of qualified experts
- Diverse phenotyping equipment (single seed analysis): Germination benches, ElonCAM, tomography
- 560m² of laboratories equipped for microbiology and molecular biology
30 climate chambers
45m² of greenhouse benches