





BioGEVES internationally

recognised expertise, regulatory missions and methodological develoment



- Under the aegis of INRAE, the Ministry of Agriculture and SEMAE, the BioGEVES laboratory of GEVES performs a wide variety of activities:
 - National and European research programs (e.g. CASDAR, FranceAgriMer, H2020, FSOV)
 - Guidance and development on request for the seed sector
 - Adaptation, optimisation and validation of protocols, participation in national and international standardisation (AFNOR, ISO, ISTA, UPOV, ISHI-Veq)
 - Variety and seed characterisation for official studies related to registration and protection of new plant varieties and seed certification
 - National Reference Laboratory for GMO Detection

BioGEVES: skills & expertise for the seed & plant sector

→ For all cultivated species:













- On all samples:
 - Seeds: individual, bulk, crushed
 - Fresh plant material (whole plants, leaves, seedlings, sprouts, *in vitro* culture, bulbs)
 - Processed plant products



Technological and nutritional quality analysis

Compositional analysis

oil content, protein content, fatty acid profiles

Antinutrients assay *e.g. glucosinolates, tannins, antitrypsic activity*

Specific constituent assay e.g. asparagine

Customised development:

NIRS and NMR prediction models, biochemical constituent assay

Organisation of Interlaboratory comparison tests

DETECTION

Pathogen detection on seeds and plants viruses/viroïds, bacteria, fungi, nematodes

viroses, virolas, bacteria, rongi, nematode

Identification of pathogen resistance genes

for characterisation for variety

Detection and quantification of GMO events.

BioGEVES is COFRAC accredited and a designated National Reference Laboratory for GMO detection in maize (seed), soya, oilseed rape and flax

Customised development

Developpement and validation of pathogen detection methods

NRL Plant Health

for regulated non-quarantine pests on seed



DNA analysis by molecular biology

Identity Control, true-to-type, and characterisation



