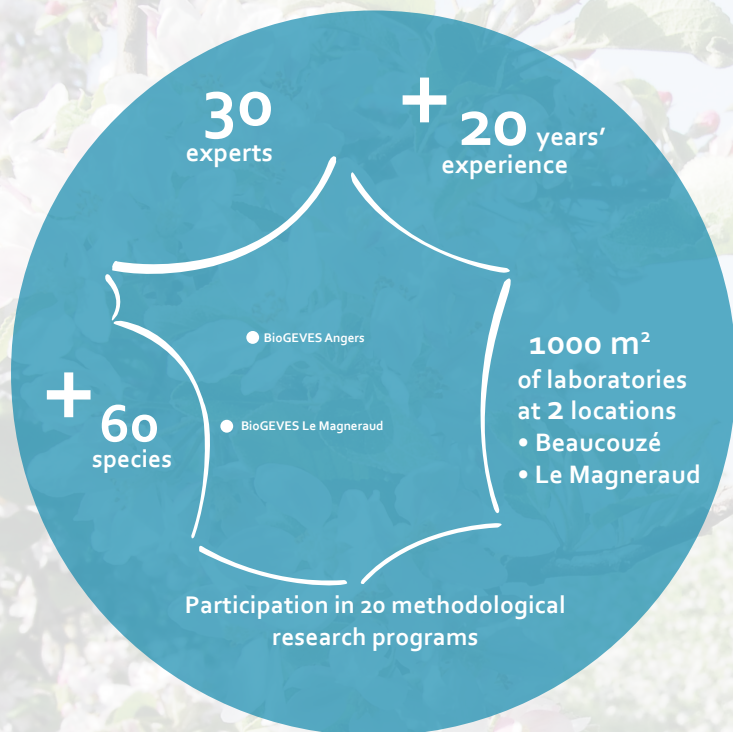


Molecular biology AND Biochemistry



Recognition & Quality



ACCREDITATION
N°1-1316 et N°1-6176
LISTES DES SITES ET
PORTÉES DISPONIBLES
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GEVES
Expertise & Performance

Public Interest Group
consisting of:



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GEVES
Expertise & Performance

Expertise
for the seed
& plant sectors



www.geves.fr

BioGEVES internationally recognised expertise, regulatory missions and methodological development

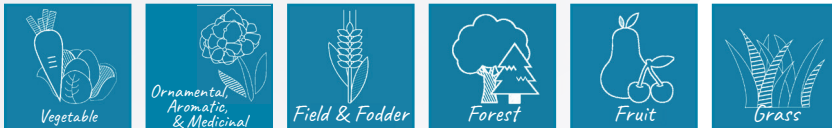


→ Under the aegis of **INRAE**, the **Ministry of Agriculture** and **SEMAE**, the BioGEVES laboratory of **GEVES** performs a wide variety of activities:

- **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-Veg)
- **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



BIOCHEMISTRY

Technological and nutritional quality analysis

Compositional analysis

oil content, protein content, fatty acid profiles

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

Specific constituent assay e.g. *asparagine*

Customised development:

NIRS and NMR prediction models, biochemical constituent assay

Organisation of Interlaboratory comparison tests

DETECTION

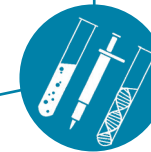
Pathogen detection on seeds and plants
viruses/viroids, bacteria, fungi, nematodes

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



GENOTYPING

DNA analysis by molecular biology

Identity Control,
true-to-type, and characterisation

Detection mix and varietal purity on seeds lots

Customised genotyping

Fingerprints of varieties, screening, analysis of genetic diversity

