

## Your R&D&I partner in plant science

📍 **Location:** Saint-Pol-de-Léon, France

🏢 **Organization type:** Non-profit applied research organization, SME

🌐 **Project involvement:** Partner or Task Leader or WP Leader

🔬 **Expertise areas:** Plant health, plant breeding support, food product quality, all crops

## HORIZON-CL6-2026-02-FARM2FORK-02

### Tackling pesticide resistance: early detection, management strategies, and foresight

#### 💡 Project Idea(s)

- ✓ Combined solutions for disease management in several key or emerged crops : genetic resistance, biocontrol products (against pathogens, insects or weeds) and early detection of pathogens.
- ✓ Development of an efficient Decision Support Tool (DST) for farmers combining climatic data and pathogen detection

#### Expertise & potential contributions

##### 🔬 Early detection of pathogens and development of pest management tools

- ✓ Specific detection of ~40 pathogenic fungi, bacteria or viruses, including spore trapping
- ✓ Molecular and biochemical tools
- ✓ Analysis of samples in various matrices
- ✓ Monitoring in confined spaces and open fields

##### 🌱 Improving knowledge of biocontrol products

- ✓ Evaluation of product efficacy
- ✓ Deciphering their mode of action
- ✓ Identification of factors influencing product efficiency
- ✓ Assessment of their compatibility with conventional pesticides
- ✓ Environmental impact study

##### 🧬 Innovative tolerant plant materials towards pests and diseases

- ✓ Inter- and intra-specific crosses for resistance trait introgression
- ✓ Development of molecular markers to tag genes of pest resistances
- ✓ Precise plant-by-plant phenotyping toward diseases

#### Contribution areas

🔍 R&D&I → TRL 3 to 6 experimentation in labs, growth chambers and greenhouses

👥 Organization of customized training courses

🗣️ Active communication through professional networks and social media : LinkedIn, Website, Newsletters, blogs, trade magazines, ...



## About Vegenov

Vegenov is an applied research center specialized in plant science.

Its R&D teams conduct trials under controlled conditions (labs, growth chambers, greenhouses) in three main areas:

- Plant health - Evaluation of biosolutions (biocontrol and biostimulants)
- Plant breeding support
- Sensory and nutritional analysis of fresh and transformed products

Founded in 1989 in Brittany, France, Vegenov conducts national and international projects on plants and their interactions with microorganisms.

Its research focuses on:

- Sustainable and performant agriculture with reduced chemical inputs
- Climate change adaptation through resilient plant materials and biosolutions
- Production of fresh, tasty and nutritious food

Vegenov contributes to about 10 collaborative projects per year (European, national, regional projects). Vegenov is actively involved in professional networks of the seed and biosolutions industries (UFS, IBMA,...)

30 employees work at Vegenov, including 5 PhD researchers, 10 engineers, and 10 technicians.

### European projects



**Natural fungicides against Air & Soil borne Pathogens in the Atlantic Area**

2018- 2022

<https://keep.eu/projects/19361/Natural-fungicides-against--EN/>



**Breeding for Resilient, Efficient and Sustainable Organic Vegetable production**

2018-2023 Work Package Leader

<https://www.bresov.eu>

### Equipment



Molecular biology lab



Cell biology lab



Pathology lab



Biochemistry lab



Greenhouses and growth chambers



Sensory analysis lab

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