



**Centre name :**

CATE

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## The research programs of your center

**Specie : Cawiflower, Broccoli, Cabbage**

Person of contact for this programme : Damien PENGUILLY

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Vegetal material	Technical route	Integrated protection	Agrobiolgy	Other subjects
Cauliflower Broccoli Cabbage (Romanesco, round)	Fertilization, specifically Nitrogen (reduction of risks of Nitrogen leaks), Plant protection Agronomy	- Evaluation of alternative and biocontrol products against the most important pests and diseases (cabbage maggot, <i>Mycosphaërella</i> ,...) - Optimization of cultural practices		- Evaluation and optimization of fresh field vegetables production though a systemic approach in order to develop sustainable solutions - Varietal evaluation - Postharvest technologies. - Diversification

**Specie : Artichoke**

Person of contact for this programme : Jean-Michel COLLET

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Vegetal material	Technical route	Integrated protection	Agrobiolgy	Other subjects
Artichokes	Fertilization, specifically Nitrogen Plant protection (Statistical model on Mildew, ...) Agronomy	- Evaluation of alternative and biocontrol plant protection products - Optimization of cultural practices		- Evaluation and optimization of fresh field vegetables production though a systemic approach in order to develop sustainable solutions - Varietal evaluation - Postharvest technologies. - Diversification

**Specie : Allium crop: Shallot and Onions**

Person of contact for this programme : François ORSINI

Email : francois.orsini@cate.fr

Vegetal material	Technical route	Integrated protection	Agrobiology	Other subjects
Shallots	Fertilization, specifically Nitrogen, Plant protection, Agronomy	- Evaluation of alternative and biocontrol plant protection products - Optimization of cultural practices to prevent pests and diseases (Botrytis, powdery mildew, bacteriosis)		- Evaluation and optimization of fresh field vegetables production through a systemic approach in order to develop sustainable solutions - Varietal evaluation - Postharvest technologies

**Specie : Witloof**

Person of contact for this programme : François ORSINI

Email : francois.orsini@cate.fr

Vegetal material	Technical route	Integrated protection	Agrobiology	Other subjects
Witloof	Trials on planting density according to the varieties and the field orientation Plant protection	Protection against root aphid		Optimization to the local conditions of soil and climate of the different varietal niches - Postharvest technologies

**Specie : Tomatoes**

Person of contact for this programme : Alain GUILLOU

Email : alain.guillou@cate.fr

Vegetal material	Technical route	Integrated protection	Agrobiology	Other subjects
Greenhouse Tomatoes	Important experimental programme on energy savings and renewable energy sources	- Alternative methods against <i>Botrytis cinerea</i> , powdery mildew, based on new cultural technics ; - Alternative methods against <i>Agrobacterium rhizogenes</i>		Comparative trials on several varietal niches - Postharvest technologies.

**Specie : Strawberries**

Person of contact for this programme : Alain GUILLOU

Email : alain.guillou@cate.fr

Vegetal material	Technical route	Integrated protection	Agrobiology	Other subjects
Strawberry	- Improvement of precocity based on various factors ; - Impact of the origin of plants	Trials on effects of mycorrhizae		

**Specific equipment :**

For information, CATE has 16 lysimetric cells, which are an almost unique equipment in regional research centres in France.

In connection with agronomic issues, they are valued in the context of studies on fertilization (quantitative and qualitative measures of drainages, nitrogen leaching risk, effect of green manure...comparative between bare soil and cultivated soils,...) by testing in parallel in fields.

They have been used for evaluation of soil mineralization in long term rotations of vegetable crops (20 years long).

## Current partnership with other research centres (national or international)

### Project 1

Specie : Field vegetables

Nature of the project : DEPHY ECOPHYTO EXPE-Systemic programme

*“Vegetables production systems to very low phytosanitary inputs in Brittany” (in both production systems) : conventional and organic)*

Length of the project : 2012-2017

Partner names and countries: other centres in France : Terre d’Essais, Chambres d’Agriculture, Cerafel, Vegenov, OBS

### Project 2

Specie : Tomatoes

Nature of the project : DEPHY ECOPHYTO EXPE-Systemic programme : *“Aim to 0 inputs”*

Length of the project : 2012-2017

Partner names and countries : other centres in France : ARELPAL (44), CATE (29), APREL (13), LCA (45), CVETMO (45), SAVEOL NATURE (29) and AOPN Tomato-Concombre (National Association of tomatoe and cucumber organisations of producers)

## Are you searching for more European partnerships with other research centres ?

On what species :

- 1 - Greenhouse Vegetable (tomatoes,...)
- 2 - Field vegetables
- 3 - Ornamental horticulture (nursery stocks, cut flowers)

What kind of projects are you searching for :

- 1 - Energy savings
- 2 - Production with low inputs (fertilization and crop protection)
- 3 - Systemic approach with agronomic questions
- 4 - Reduction of pesticides and alternative way against fungi, aphids...
- 5 - Postharvest technologies.

What kind of partners are you searching for ? From which countries ?

Partners : INRA, CTIFL, Plant protection official services, other research centres in France and EU,...

Countries : Belgium, Netherlands, Germany, Spain, Italy, England,