



## **LabCom SEASIDES: Development of screening and understanding of biostimulants mode of action in stress condition**

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# LabCom SEASIDES: Development of screening and understanding of biostimulants mode of action in stress condition

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The LabCom SEASIDES - **SEAweeds extracts in Sustainable plant DEfense and bioStimulation** aims to set up a collaborative research and development structure between the Glyco-MEV laboratory (Glycobiology and Plant Extracellular Matrix - EA4358) at the University of Rouen Normandy and ETI ALGAIA.

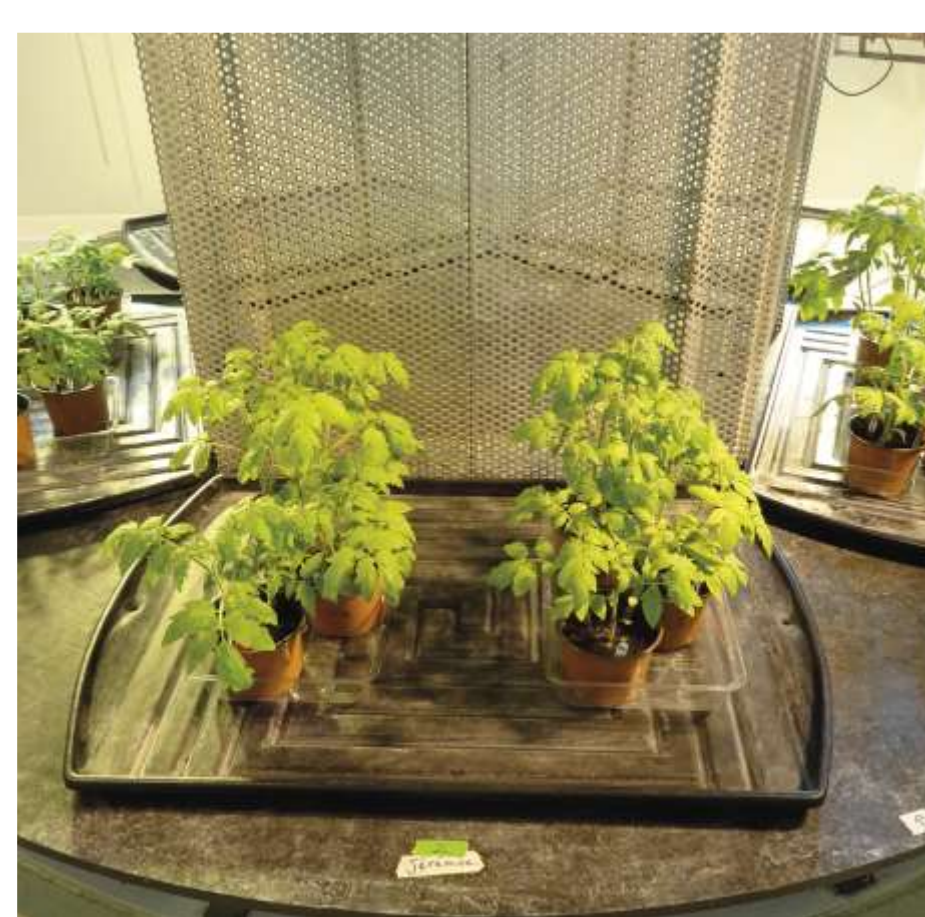
## The objectives of the SEASIDES research:

- Increase knowledge on marine bio-ingredients,
- Enhance the fundamental knowledge on plants by developing new diagnostic tools and new biostimulants in response to abiotic stresses and
- Promoting agroecology in plant production (e.g., reduction of the use of agricultural chemicals).

### In controlled and semi-controlled conditions



*In vitro*



*In plant pots*

### Phenological traits

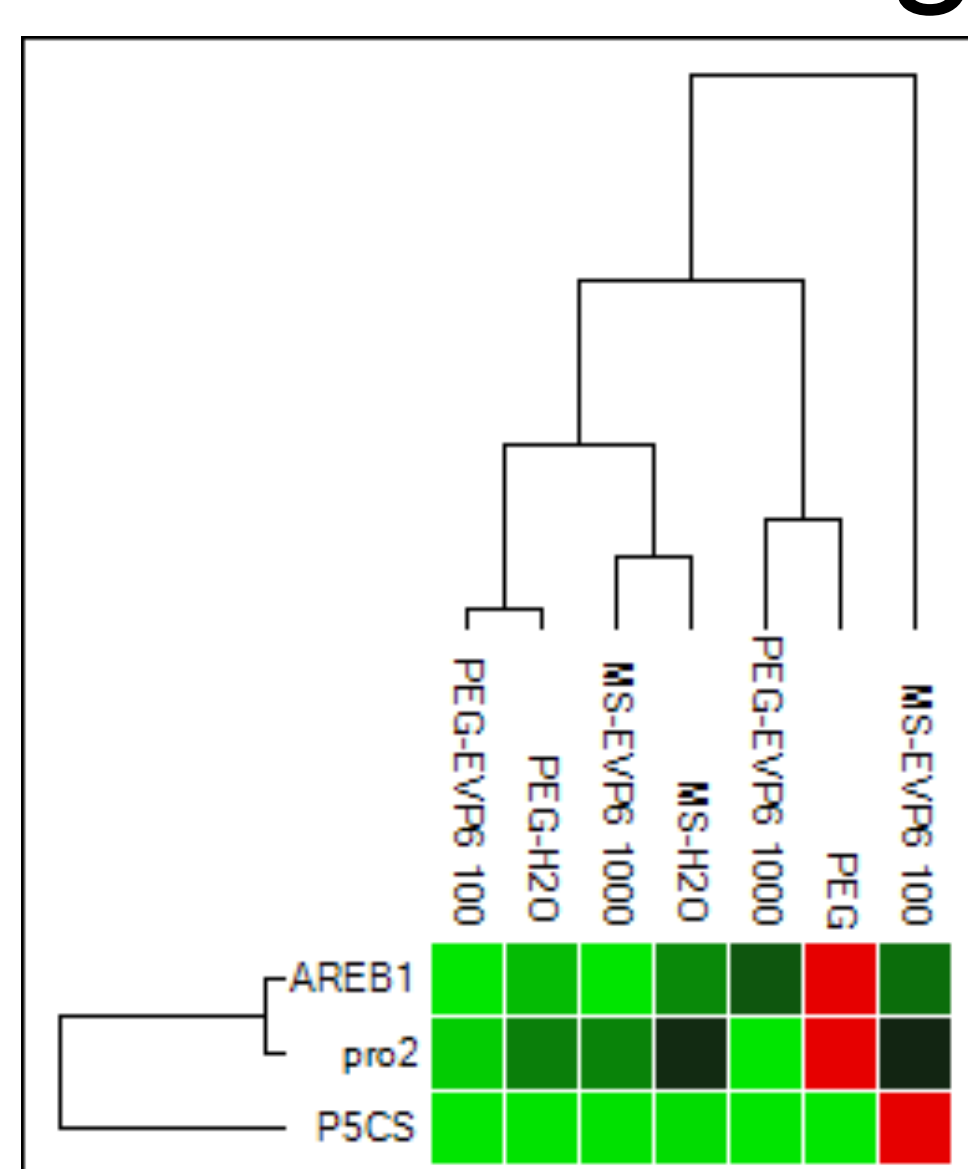
- Root and aerial growth
- Chlorophyll content
- Biomass measurement
- Total leaf number
- Leaf surface
- ...



## Differents approaches

### Gene expression

- LEA genes
- Proline catabolism genes



### Cellular traits

- Cell wall alterations

