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:

i. Increase knowledge on marine bio-ingredients,
ii. Enhance the fundamental knowledge on plants by developing new diagnostic tools and new biostimulants in response to abiotic stresses and
iii. 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

Gene expression

- LEA genes
- Proline catabolism genes

Differents approaches

Cellular traits

- Cell wall alterations