

# LabCom SEASIDES Powerful tools for the characterization of the mechanism of action of biostimulants

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### Powerful tools for the characterization of the mechanism of action of biostimulants

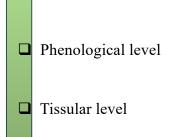
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The LabCom SEASIDES, combines the expertise of two partners:

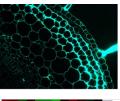
- GlycoMEV laboratory (Glycobiology Plant and Extracellular Matrix - UR4358) at the University of Rouen Normandy, with a recognized expertise in glycobiology
- ALGAIA R&D Center, a private company, the main manufacturer of seaweed extracts in France

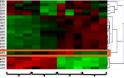


#### A multi-scale approach

- Cellular level
- Molecular level







Over the past few years, we have seen a growing interest in the use of biostimulants for sustainable agriculture. In addition, the ongoing European Regulation (EU 2019/1009) establishes the rules related to the registration and marketing of plant biostimulants within the EU. Therefore, to officially register a biostimulant product, it is required to demonstrate its effectiveness reliably through fundamental research. In addition, many companies are currently willing to characterize more specifically the mechanism of action of their biostimulant products.

#### **Plants of interest**



Soybean

Tomato

Abiotic stresses



Analysis of Organs



Roots/stems/leaves

Drought stress

A multi-scale approach (plant growth traits, water content, chlorophyll content measurement, cell imaging, carbohydrate analysis, molecular biology including RNAseq) is available in controlled and semi-controlled conditions on cultivated species of agronomical interest in order to assess biostimulant activities under drought stress conditions. The proposed services can be offered to both private and academic laboratories.

