



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

Sophie Bernard, Gaelle Durambur, Carole Plasson, Patrice Lerouge, Narimane
Mati-Baouche, Bruno Gugi, Jérémy Brébion, Franck Hennequart, Azeddine
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LabCom SEASIDES

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

Sophie Bernard¹, Gaëlle Durambur¹, Carole Plasson¹, Patrice Lerouge¹, Narimane Mati-Baouche¹, Bruno Gugi¹, Jeremy Brebion², Franck Hennequart², Azeddine Driouich¹, and Isabelle Boulogne¹

¹Univ Rouen Normandie, GLYCOMEV UR 4358, SFR Normandie Végétal FED 4277, Innovation Chimie Carnot, IRIB, F-76000 Rouen, France ²ALGAIA R&D Center, 91 Rue Edouard Branly, 50 000 St Lô, France

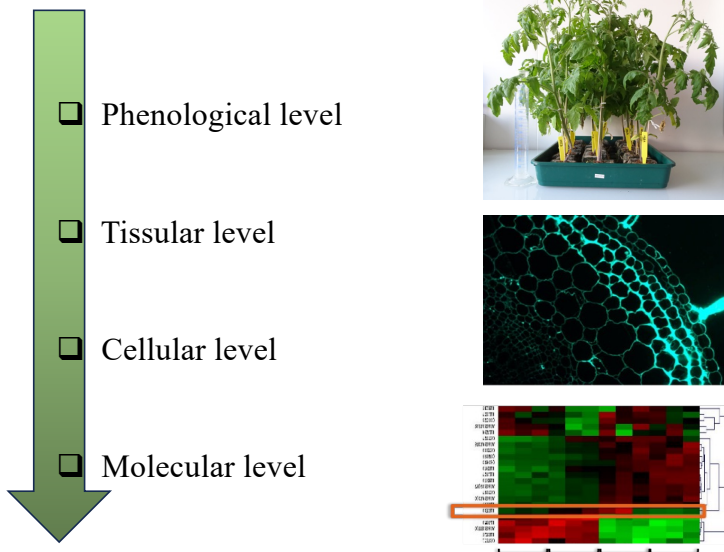


Over the past few years, we have seen a growing interest in the use of biostimulants for sustainable agriculture. In addition, the ongoing European Regulation (EU 2019/1009) establishes the rules related to the registration and marketing of plant biostimulants within the EU. Therefore, to officially 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.

The LabCom SEASIDES, combines the expertise of two partners:

- GlycoMEV laboratory (Glycobiology and Plant Extracellular Matrix - UR4358) at the University of Rouen Normandie, 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



Plants of interest



Soybean

Maize

Tomato

Flax

Analysis of Organs



Roots/stems/leaves

Abiotic stresses



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.**

