



Beneficial Microbes to Optimize pest control in Sustainable Tomato production

**BeMOST
HFRI-FM17-50**

D3.2 Phytohormonal accumulation in response to BM (fungi/bacteria)-induced resistance (CO)

Summary

D3.2 is a deliverable of WP3 which investigates the molecular mechanisms and regulatory pathways underlying microbe-induced plant resistance against arthropod pests in tomato. The objectives to achieve this are:

- 3.1. To study gene expression triggered by beneficial microbes against pests as a component of direct induced resistance;
- 3.2. To assess alterations in phytohormonal accumulation triggered by beneficial microbes against arthropod pests;
- 3.3. To verify microbe-induced resistance phenotypes as expressed in herbivore performance on different tomato genotypes.

In the context of the WP3 objectives, D3.2 reports on the activities performed and main outcomes of the phytohormones analyses and the study of the regulatory signaling pathways involved in microbe-induced plant resistance against BeMOST herbivores for the selected fungal/bacterial-tomato-herbivore combinations.

1



The research project was supported by the Hellenic Foundation for Research and Innovation (H.F.R.I.) under the "1st Call for H.F.R.I. Research Projects to support Faculty Members & Researchers and the Procurement of High-and the procurement of high-cost research equipment grant" (Project Number: 50).