

LIFE Waste4Growth analyses of antifungal value of insect frass

In vitro evaluation of antifungal properties of solid frass-derived extracts

Production of 2 extracts from 2 solid frass samples provided by respectively MAGMA and REPLOID	
In vitro microbiological assays for antifungal properties of the 2 extracts at a standard concentration against at least 15 different fungal species (2 strains each).	

Evaluation of effect of solid frass on soil microbiota and plant growth/physiology

Metagenomic analysis of the effects of solid frass provided by REPLOID with and without sterilization in the presence and absence of a plant	
Study of plant growth and physiological parameters during the above experiment	
Plant material preservation for future use	

Study of plant's innate immune responses after application of a liquid frass-based product in the presence vs. absence of fungal disease

Transcriptomic analysis of molecular plant responses upon treatment with a liquid frass-based product provided by REPLOID in the presence and absence of a fungal disease agent (indicatively Verticillium dahliae), followed by verification of selected genes.	
Plant material preservation for future use	