

# Arabidopsis multi-omics reveals the role of autophagy in root microbiome assembly.

Shan Cheng, Yunfeng Shi, Weiming Hu, Fen Liu

Lushan Botanical Garden, Jiangxi Province and Chinese Academy of Sciences, Jiujiang, China



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### 16S rRNA analysis



Figure 1. Autophagy impacts the root-associated microbiota assembly.



#### **Metagenomic analysis**



Figure 2. Autophagy-induced functional Changes in the root-associated microbiome.



#### **Proteomic analysis**



Figure 3. Proteome emphasized that autophagy causes changes in cell wall and defense-related processes.

### Physiological and biochemical analysis



Figure 4. The absence of autophagy causes changes in the cell wall.

#### **Metabolome analysis**



#### Figure 5. The absence of autophagy alters the composition of root exudates.



## Summary



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