

## **Host and environmental factors shape the plant root microbiome during drought**

The enrichment of members of the bacterial genus *Streptomyces* in the plant root under drought occurs across diverse plant species, yet the underlying factors driving this enrichment remain largely unknown. Using the model plant *Arabidopsis*, we demonstrate the organ specificity and temporal stability of a drought-enriched cohort of *Streptomyces* taxa from a single soil locality. *Streptomyces* from climatically and geographically diverse soil locations exhibit the ability to become enriched in plant roots during drought. Evidence from plant genetic and chemical manipulation support the hypothesis that dampened plant immunity under drought contributes to *Streptomyces* enrichment.