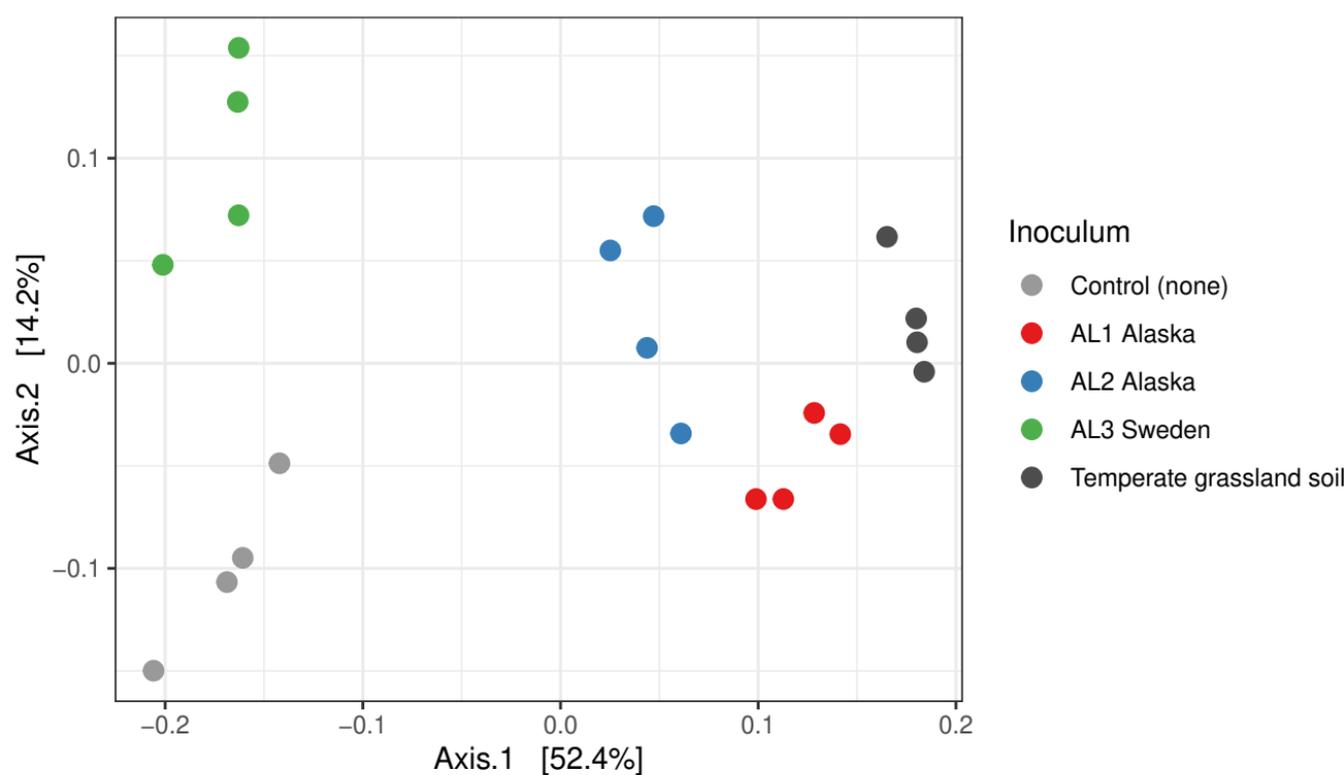


Figure 1: Summary of the experimental design. *Folsomia candida* collembola were grown in a stock culture on gypsum and fed with yeast, then subjected to different treatments before being inoculated into jars filled with Yedoma permafrost sediment (30-80 individuals per jar). Ectozoochory was assessed by spraying the collembola with soil suspensions, while endozoochory was assessed by growing collembola in stock cultures supplemented with soil. The jars were incubated in the dark for 25 days at 10 °C, CO₂ production was measured throughout the incubation period and bacterial community composition was determined at the end of the incubation.



AC Figure 1: Yedoma permafrost bacterial community composition with and without bacterial community manipulation by inoculating with a soil suspension, after 389 days of dark aerobic incubation at 10 °C. Principal Coordinates Analysis of weighted UniFrac distances derived from ASVs obtained from amplicons of the 16S V4V5 regions, following laboratory and bioinformatic analyses similar to those described in the main text.