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**Manuscript Title :** Ecological significance of *Candidatus ARS69* and *Gemmatimonadota* in the Arctic glacier foreland ecosystems

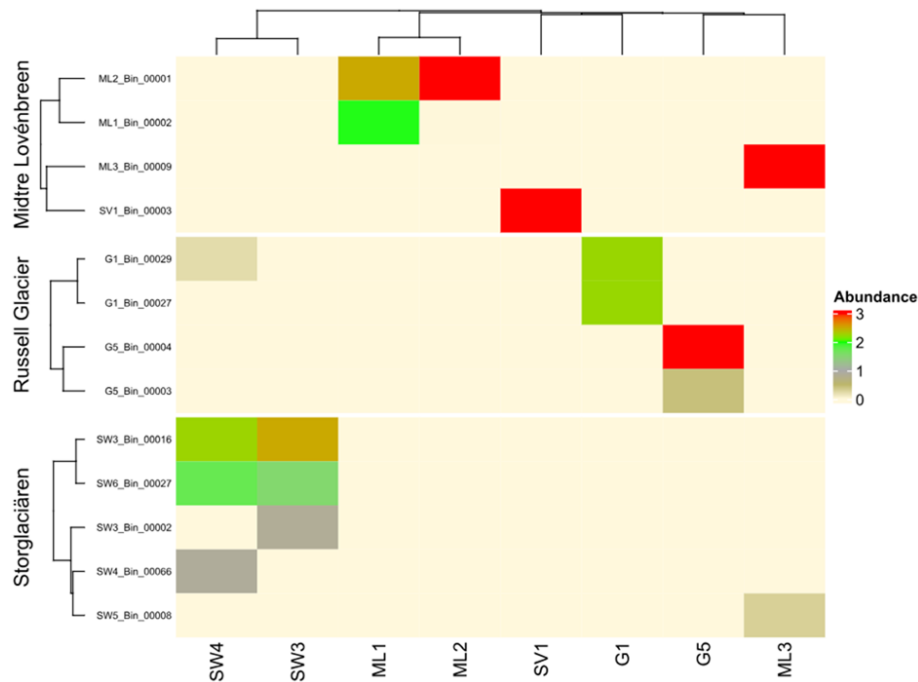
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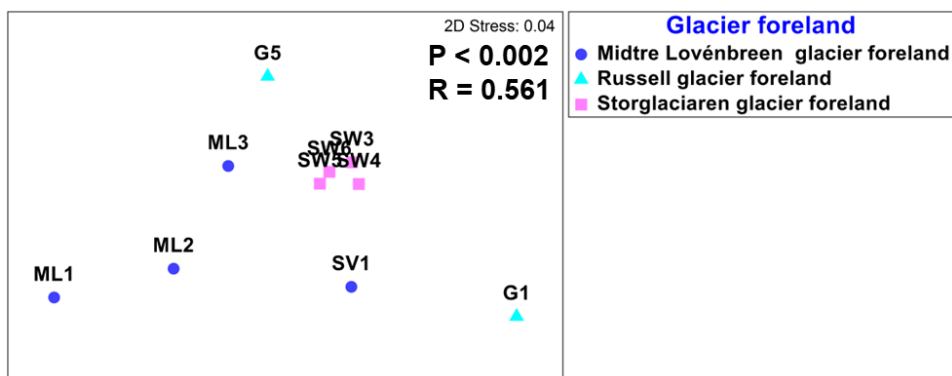
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## (A) Distribution of MAG abundance



## (B) NMDS analysis



**Supplementary Fig. S1.** (A) Heatmap showing the abundance of reconstructed among the sampling sites. The rows represent the MAGs grouped by the hierarchical clustering method. Similarly, in the column, the samples were grouped by hierarchical clustering. The MAG abundance was normalized to the Z score and presented as “Abundance”. The heatmap was generated using the R package “complexheatmap” in R version 4.1.3. (B). NMDS analysis showing the MAG abundance distribution patterns among three GF ecosystems.