

## Our Interest

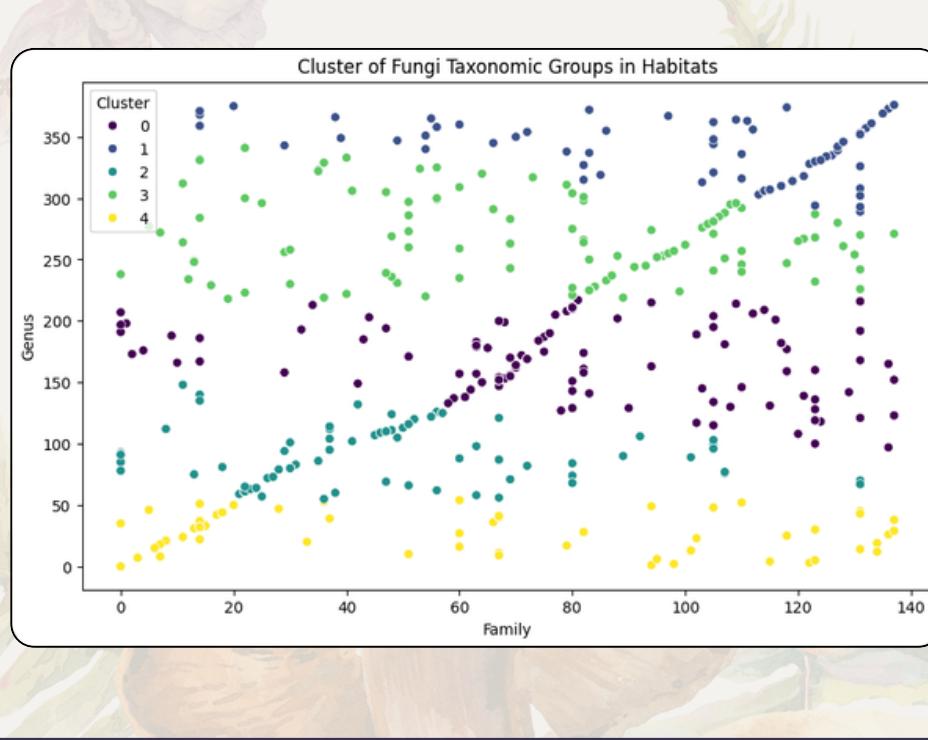
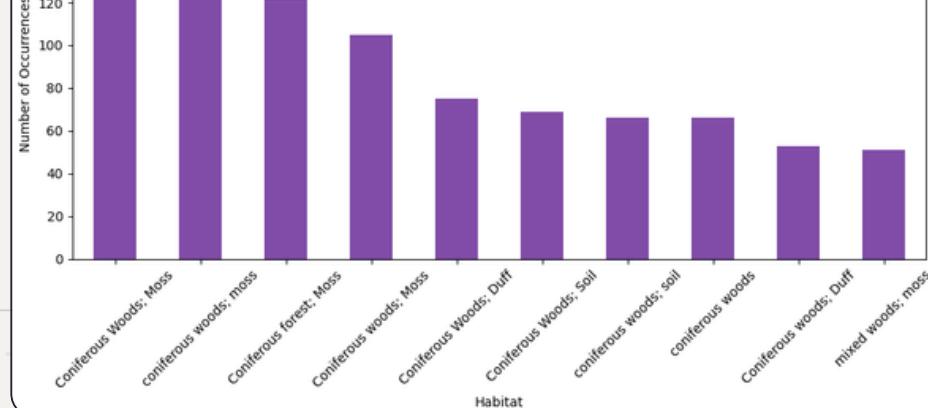
Can we identify preferred habitats for fungi and discern any habitat preferences based on taxonomic groups?

## Methodology

To investigate common habitats and taxonomic patterns of fungi, the dataset was first preprocessed to filter relevant information. Habitats were analyzed for their frequency of fungal occurrences. KMeans clustering was then applied to discover patterns by grouping fungi based on taxonomic classification and habitats. This unsupervised approach helped in identifying the common characteristics of each cluster.

## Results Summary

The top habitats for fungi occurrences were predominantly coniferous woods with moss. The clustering suggests that while there is some overlap in habitat preferences among different taxonomic groups, certain habitats are more strongly associated with specific clusters, pointing towards ecological niches within the fungal kingdom.



<b>Clustor 0</b>	Coniferous Woods; Moss
<b>Clustor 1</b>	Coniferous woods; Moss, Soil
<b>Clustor 2</b>	Coniferous forest; Moss
<b>Clustor 3</b>	Coniferous woods; Duff
<b>Clustor 4</b>	coniferous woods; Moss, duff (conifer)