**Second Study Group Report**

* **Abundance charts:**

**A pie chart with numbers and text

Description automatically generatedA pie chart with text on it

Description automatically generated**

**A pie chart with numbers and text

Description automatically generated**

**Pie char representation of microbial abundance at phylum and species level and Genus’s level, In the plots above the abundance below the 1 % and equal to 1 % percent were ignore for genus and species level and abundance below 0.5 % and equal to 0.5 % for Phylum level.**

**Cluster analysis:**

**A screenshot of a computer

Description automatically generated**

**Alpha Diversity:**

A group of graphs with numbers

Description automatically generated with medium confidence

**Principal Component Analysis**

**A graph with arrows and dots

Description automatically generated**

**A graph with colored lines and dots

Description automatically generated**

**A graph with arrows and lines

Description automatically generated with medium confidence**