**PD group**

A close-up of a list

Description automatically generated

A chart with different colored squares

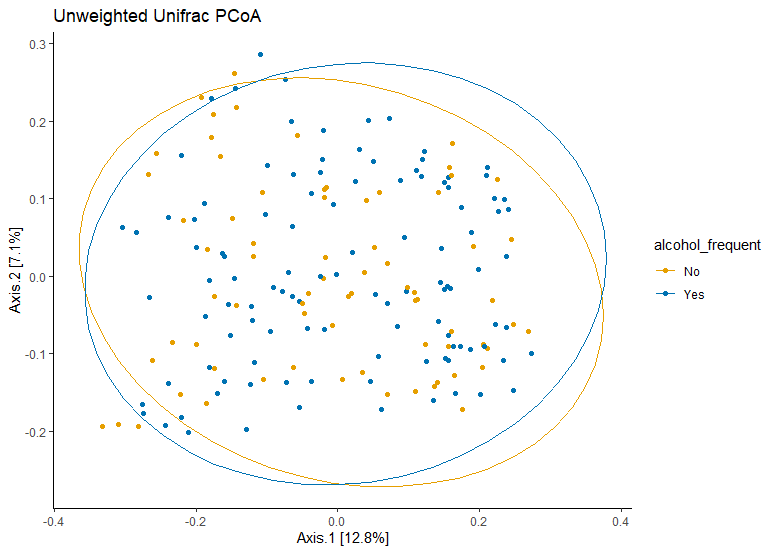
Description automatically generated with medium confidence

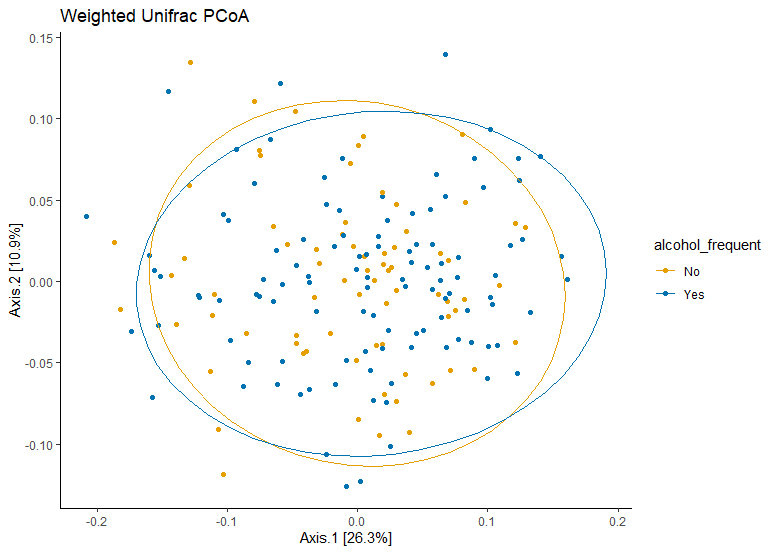
**Observed Chao1 Shannon Simpson**

**p.value 0.1860148 0.3241064 0.3632941 0.7691126**

**A diagram of a graph

Description automatically generated with medium confidence**

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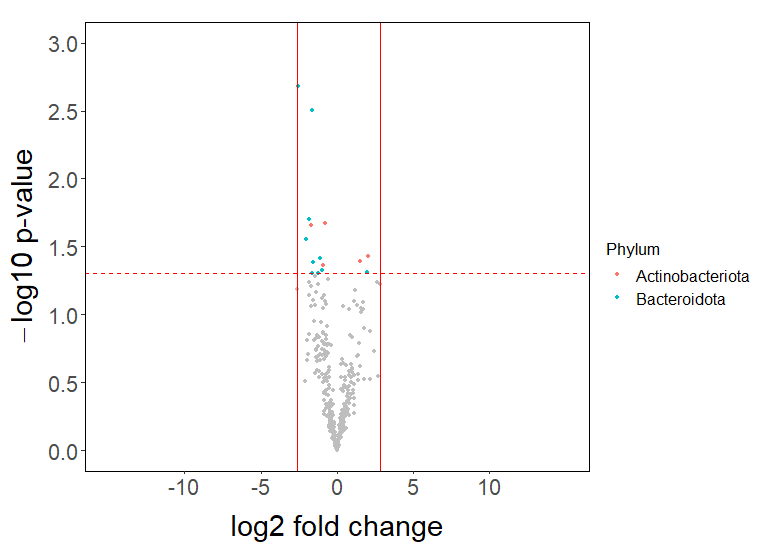
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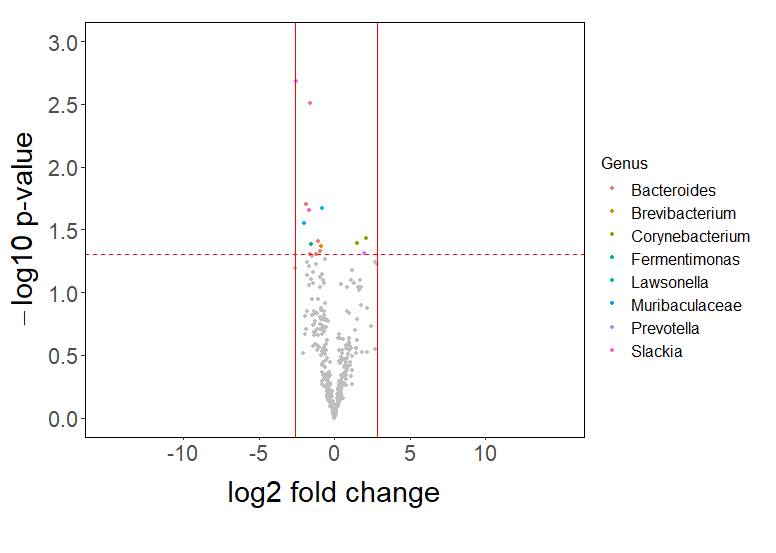
**metric p.value**

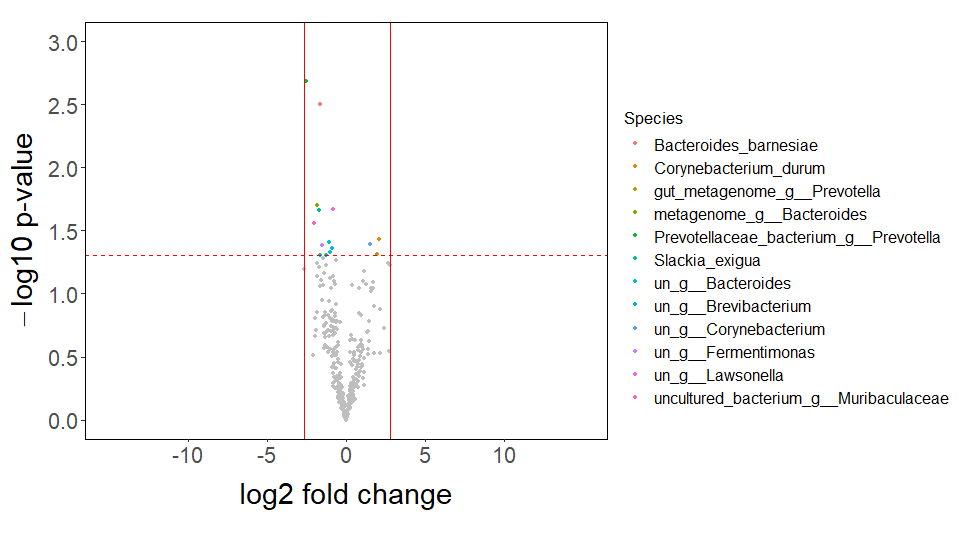
**1 canberra 0.506**

**2 unweighted-UniFrac 0.801**

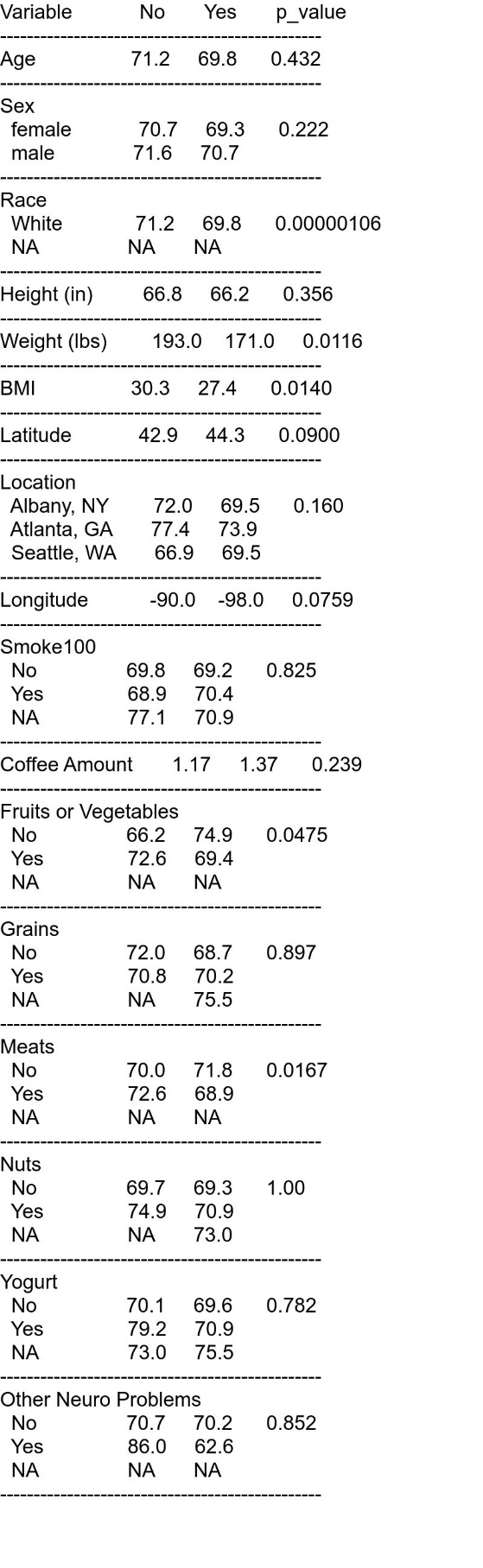
**3 weighted-UniFrac 0.363**

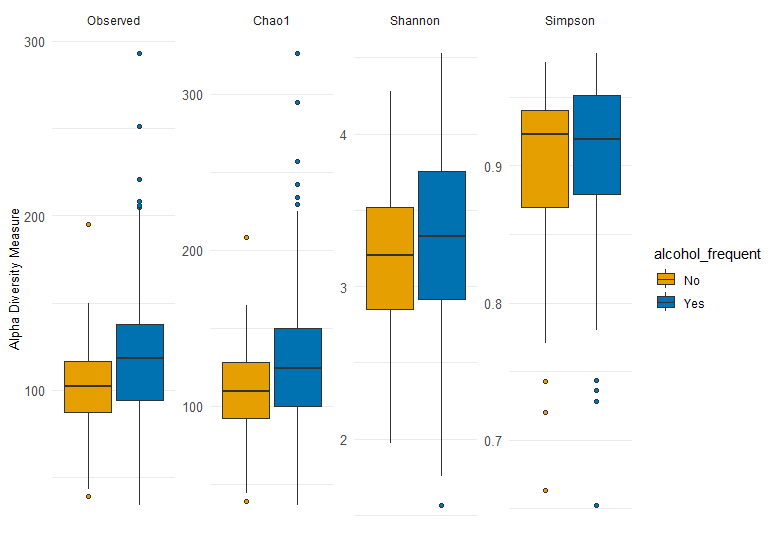
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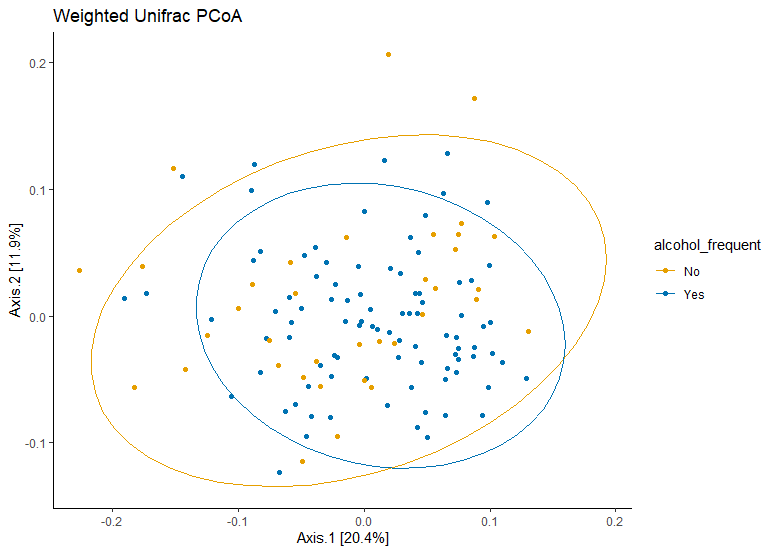
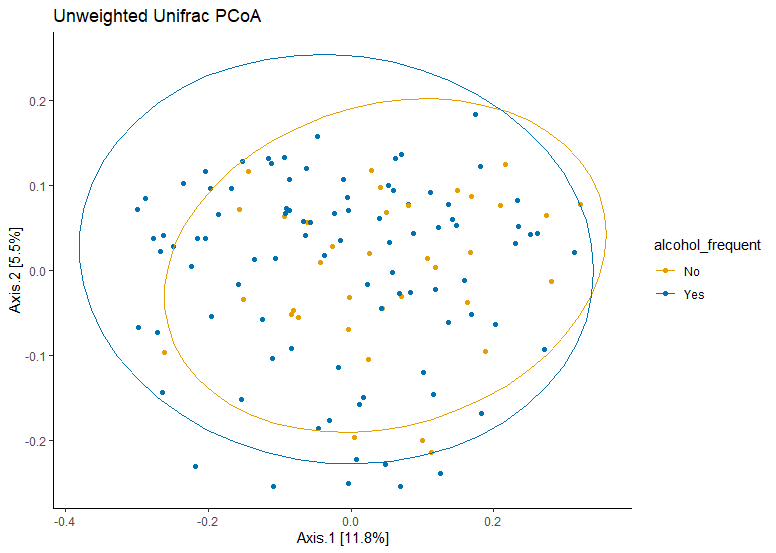
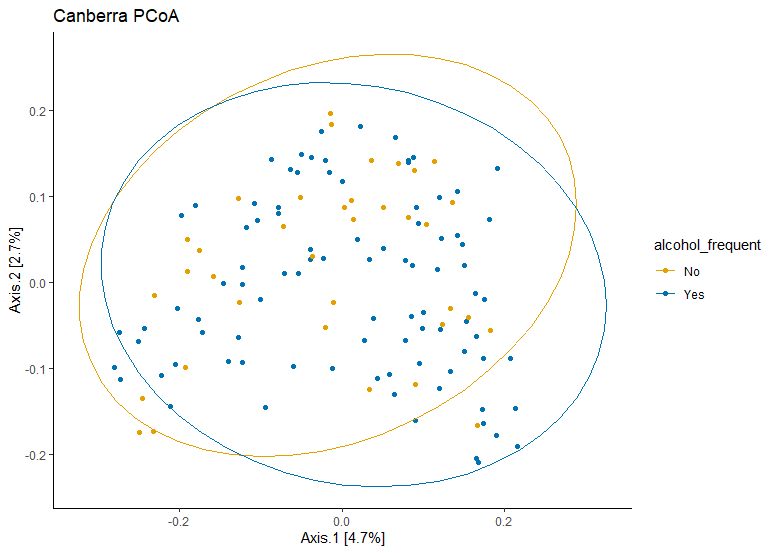
**Control Group**

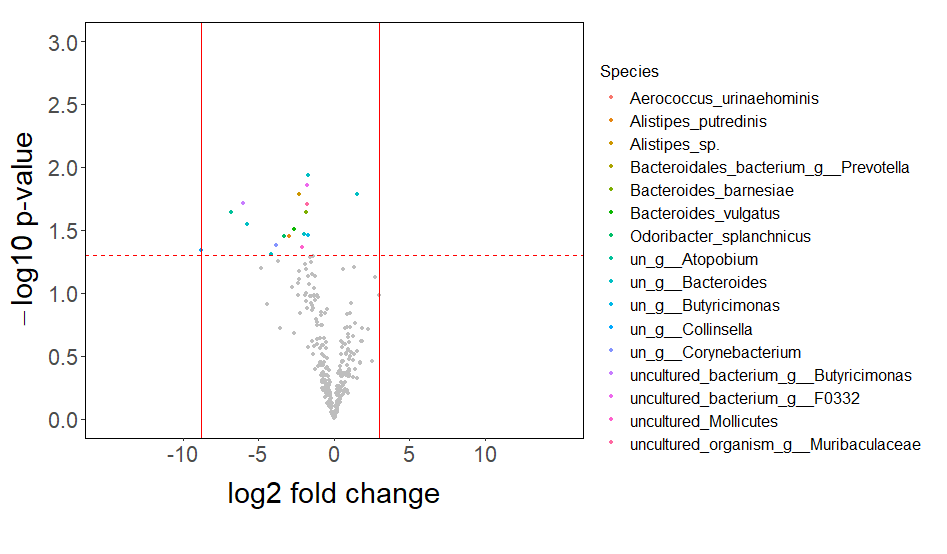
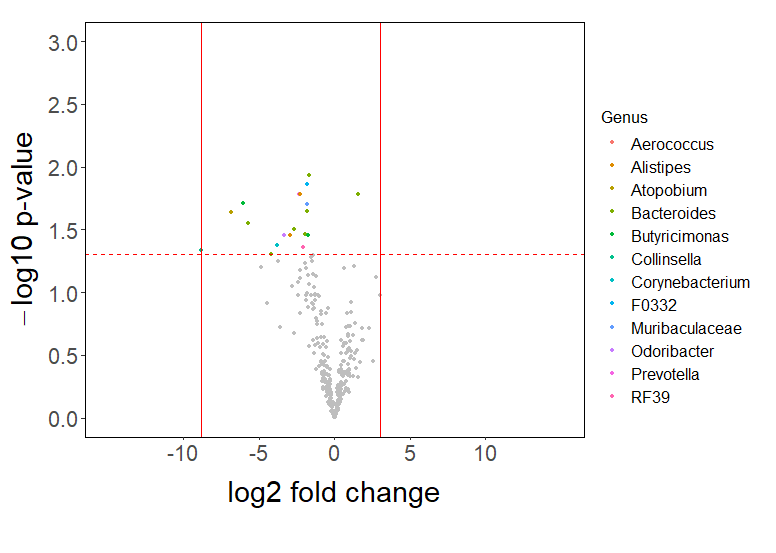
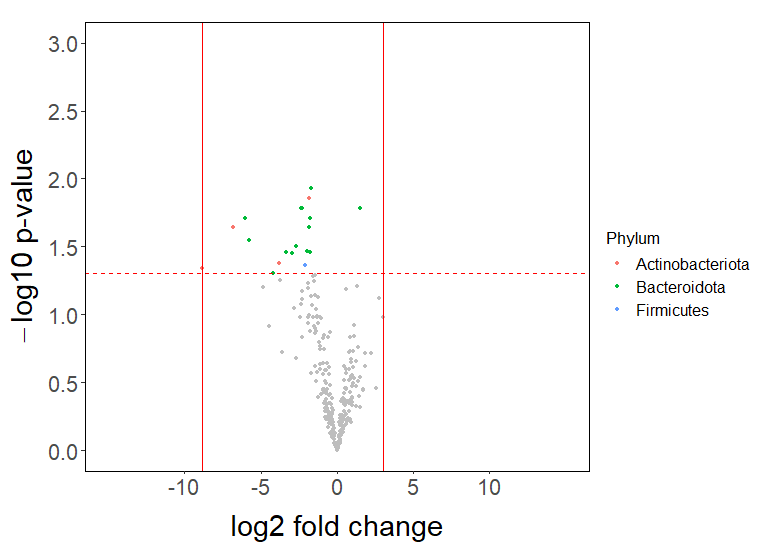
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**Observed Chao1 Shannon Simpson**

**p.value 0.009391524 0.008160922 0.1061915 0.272795**

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**metric p.value**

**1 canberra 0.069**

**2 unweighted-UniFrac 0.008**

**3 weighted-UniFrac 0.032**

**All participants with PD and without PD**

Control

PD

Bacteroides

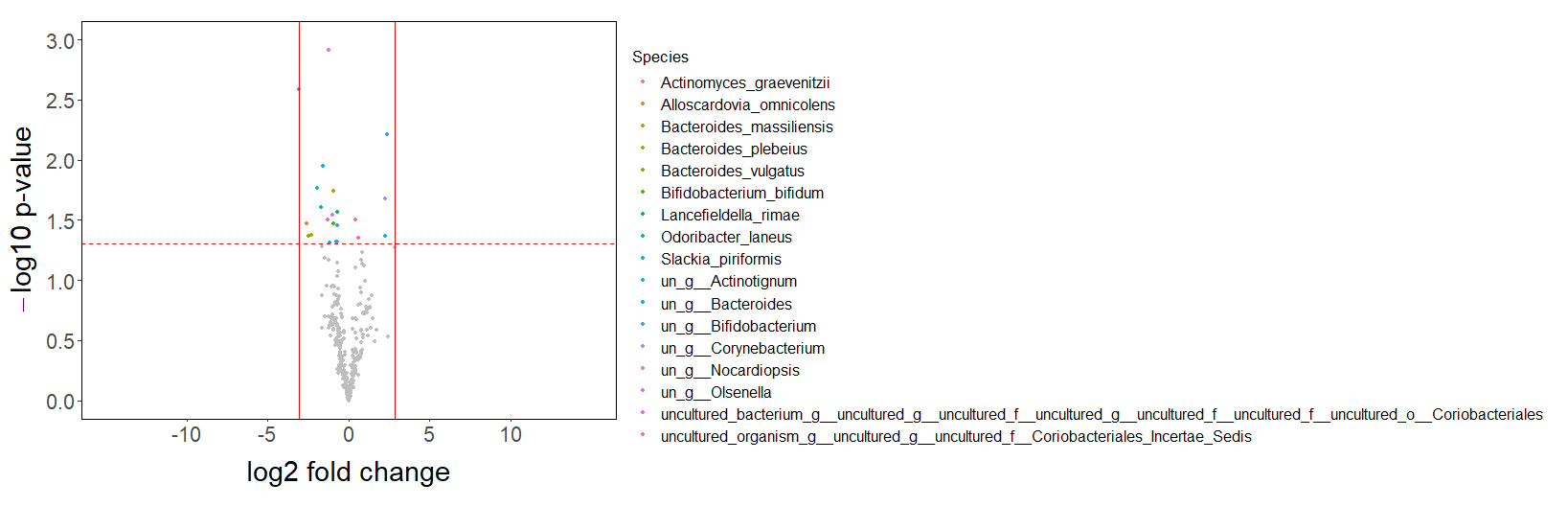
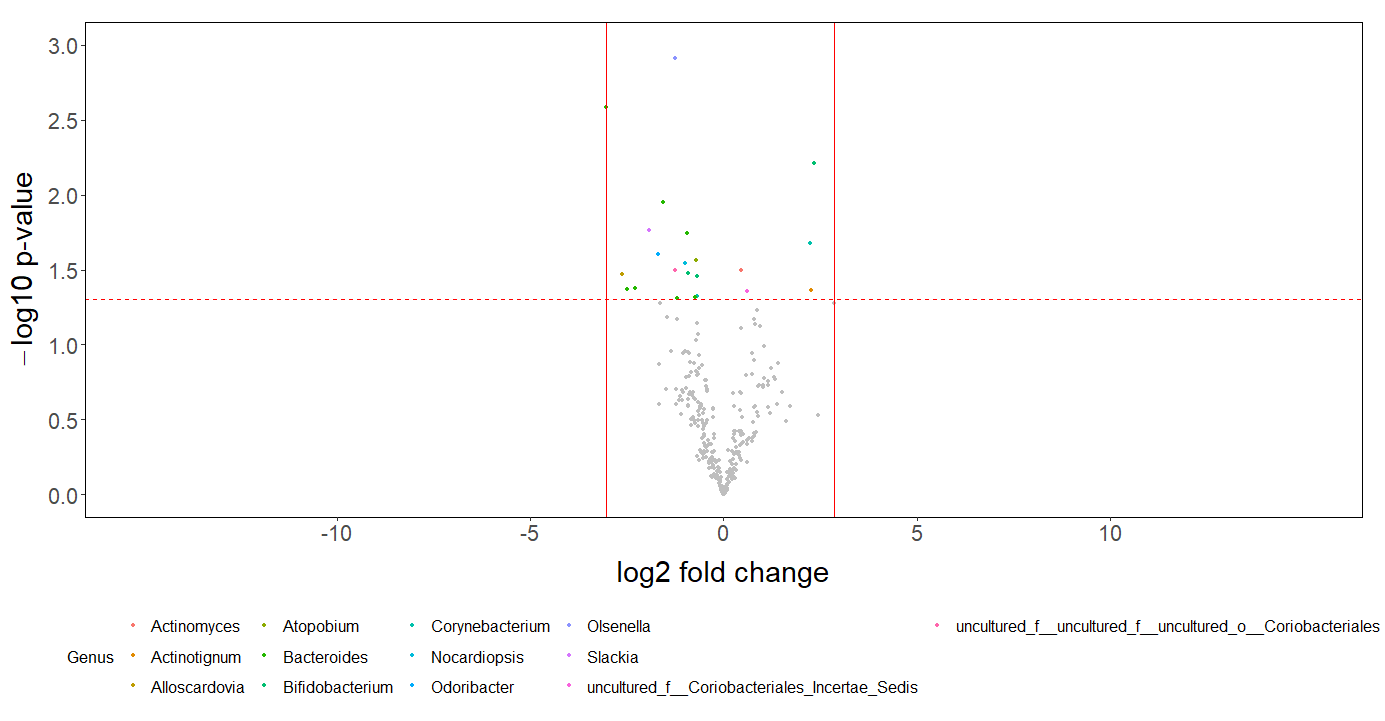
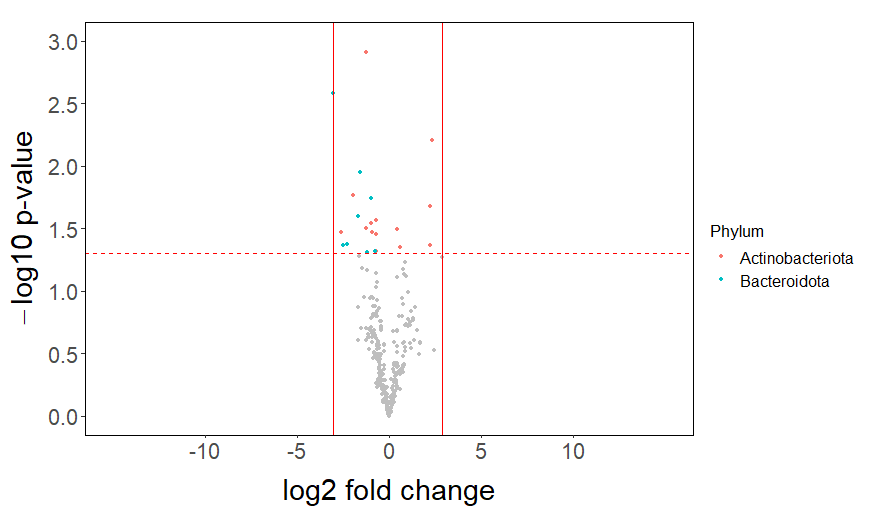
Prevotella

Corynebacterium

**Metabolic pathways**

A graph of a graph

Description automatically generated with medium confidence

**Volcano plots**