Daniel

Lipidomics Analysis Report V1.2

SingMass / 03 March 2023

EXPLORATORY DATA ANALYSIS

Sample Clustering
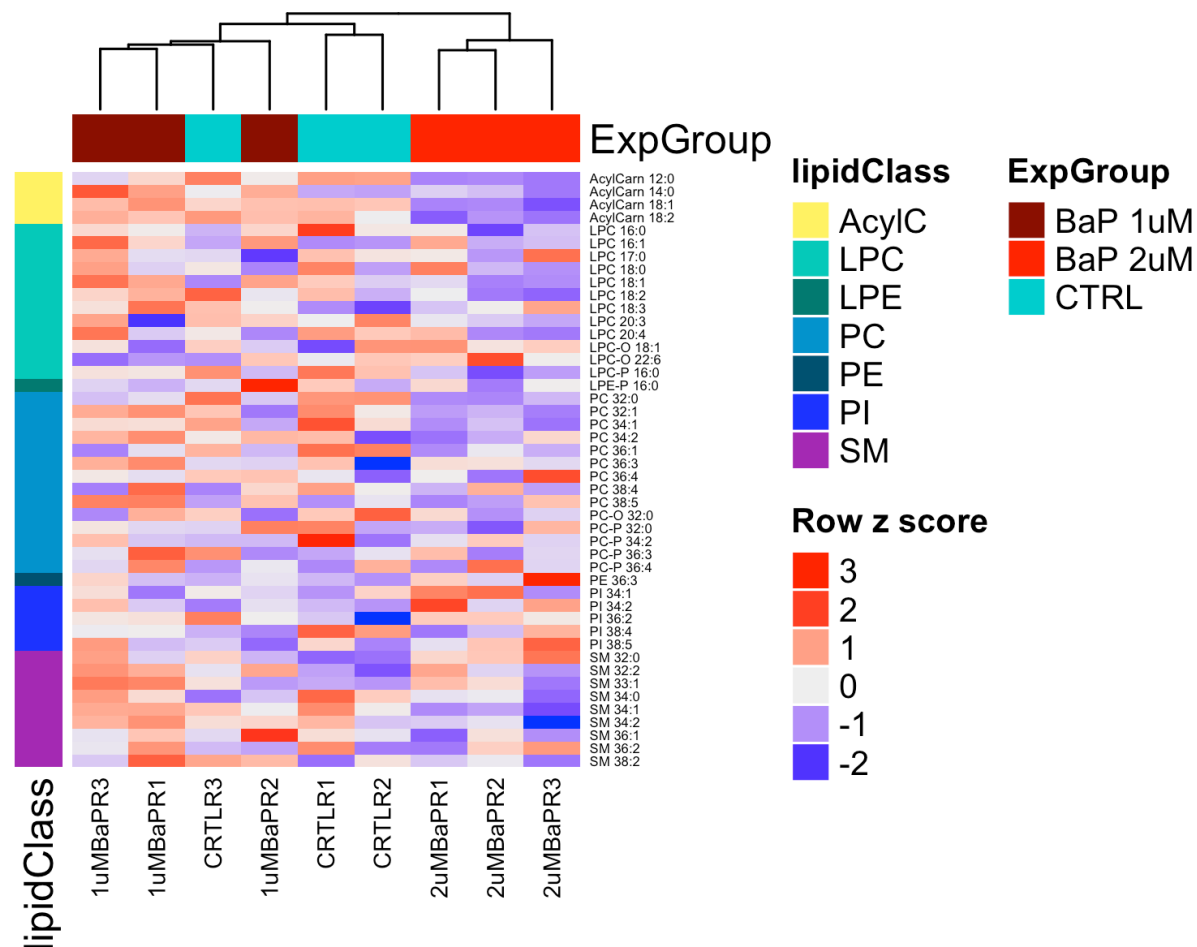

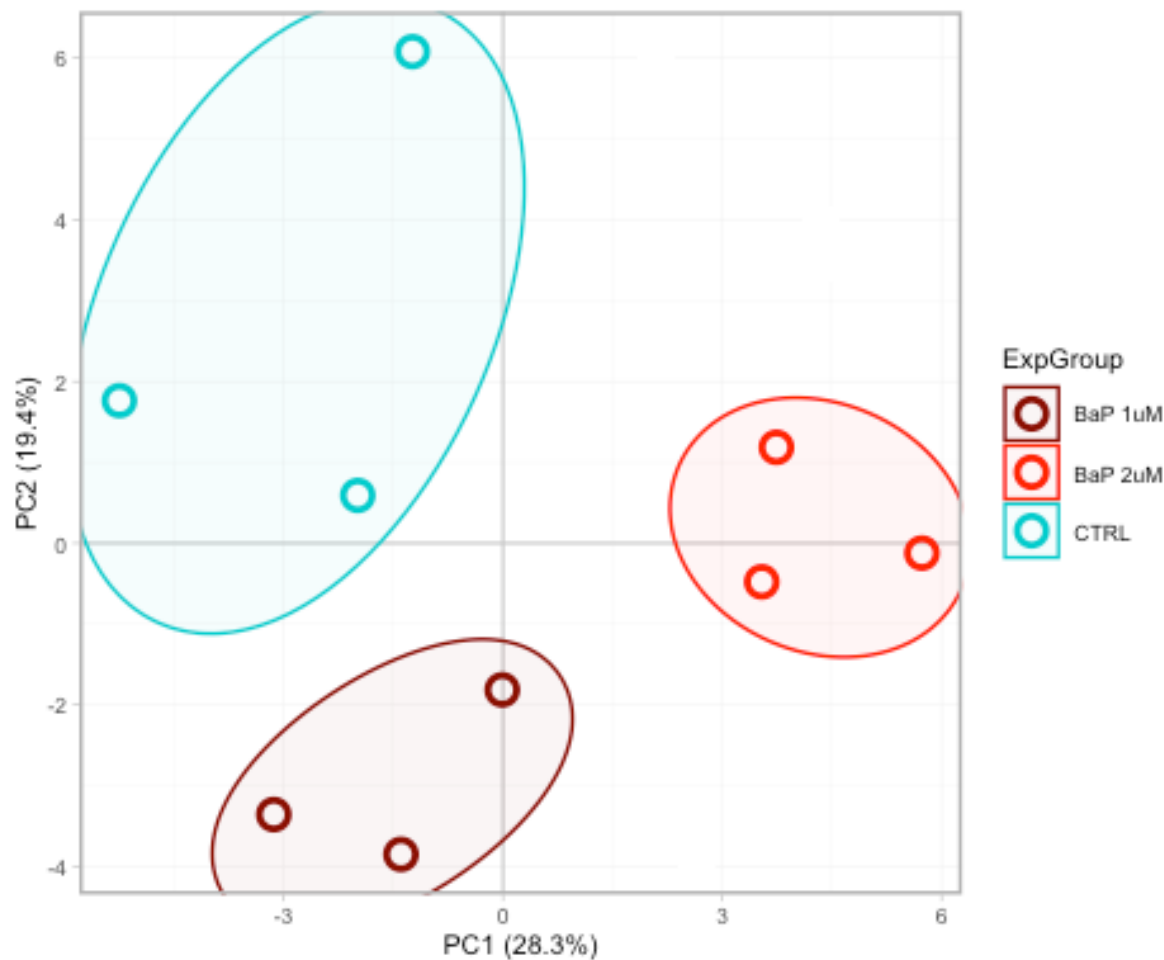**Figure 1.** Heatmap with clusering of samples and lipid species

PCA analysis

Figure 2. Principal component analysis of all samples based on all lipid species. Ellipses are solely meant for annotation of the groups.
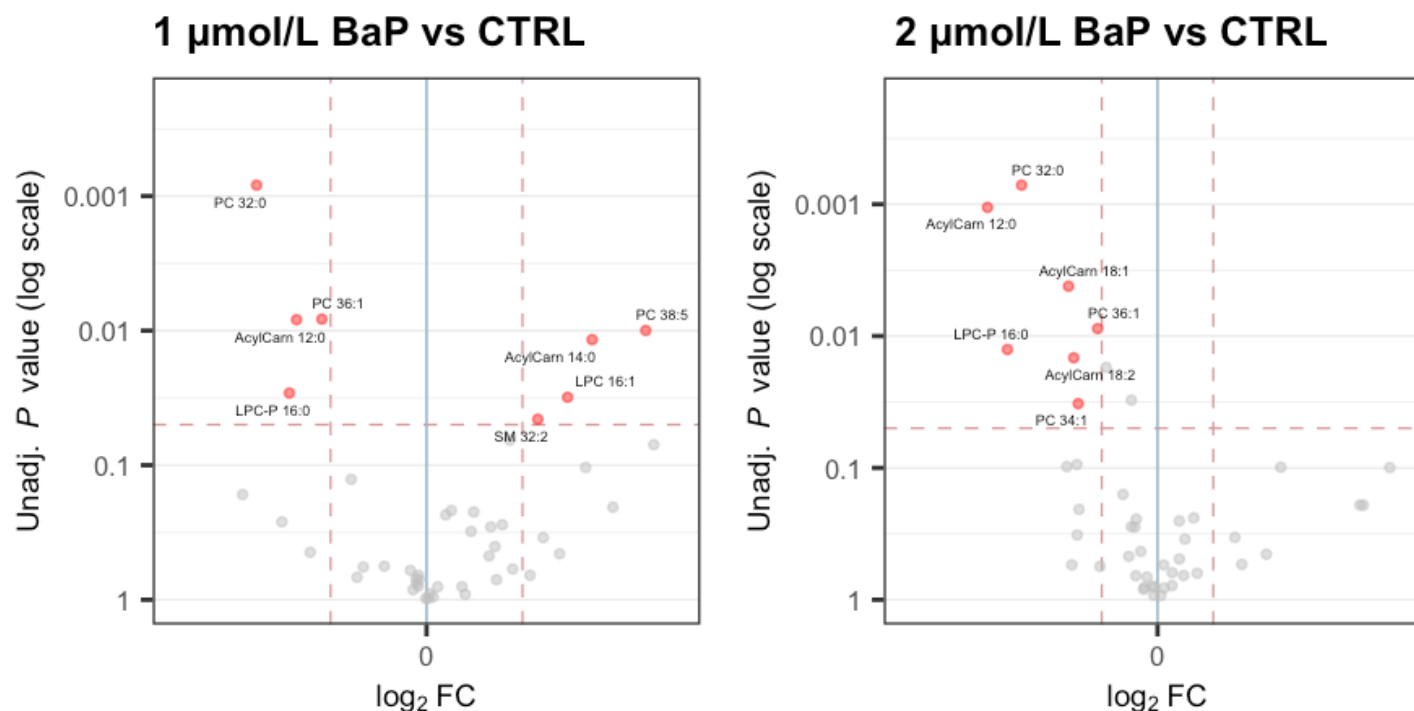
Statistical Comparisons

Figure 3. Volcano plots from the statistical comparison of the experimental groups using Welch's *t*-tests. Lipid species with significant differences between the groups are highlighted in red ($P < 0.05$ and $|FC| > 1.1$).
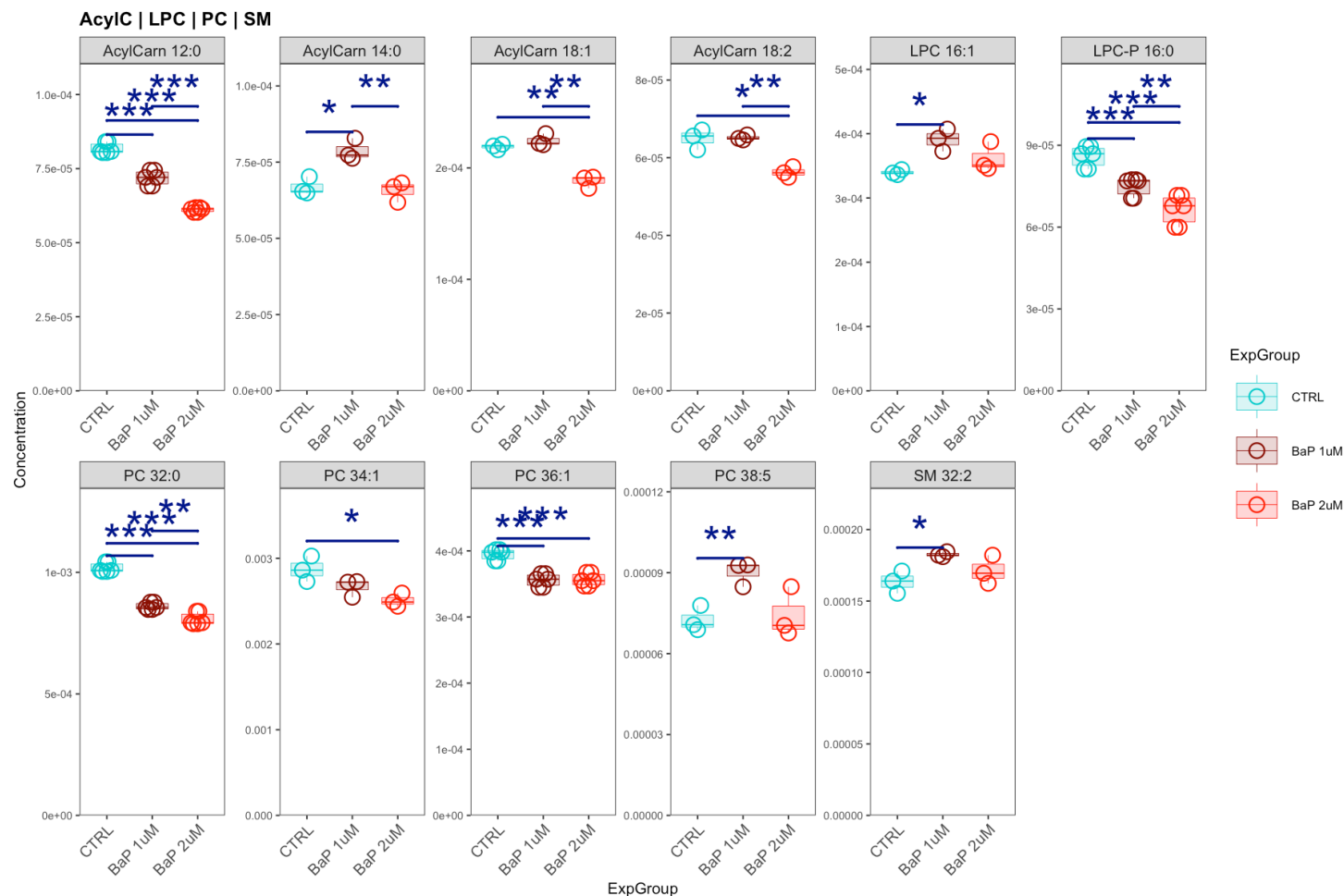
Significanlty different lipid species

Figure 4. Lipid species with statistically significant changes as indicated in the Figure 3 (*P* > 0.5, |FC| > 1.1)

```
## [[1]]
```
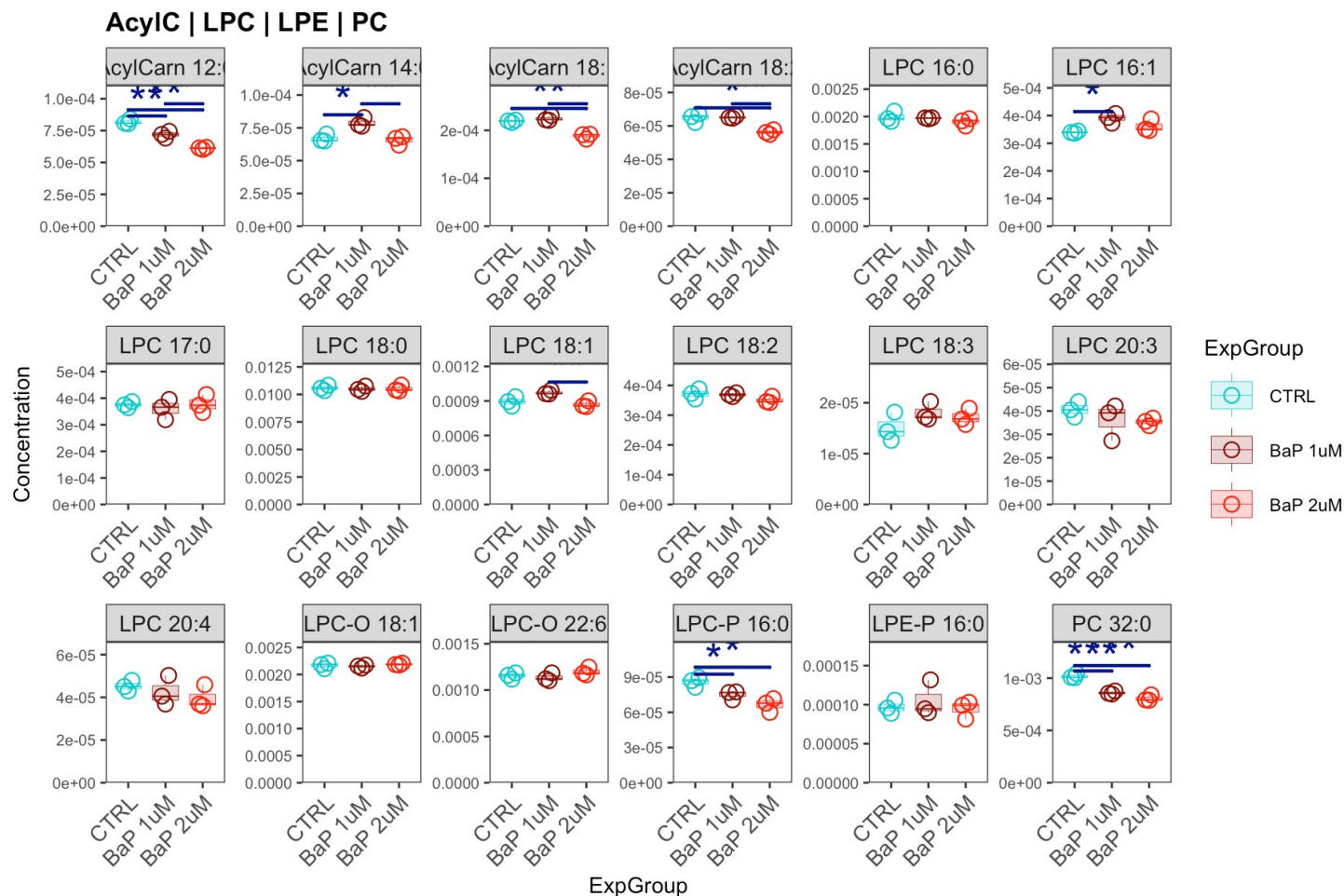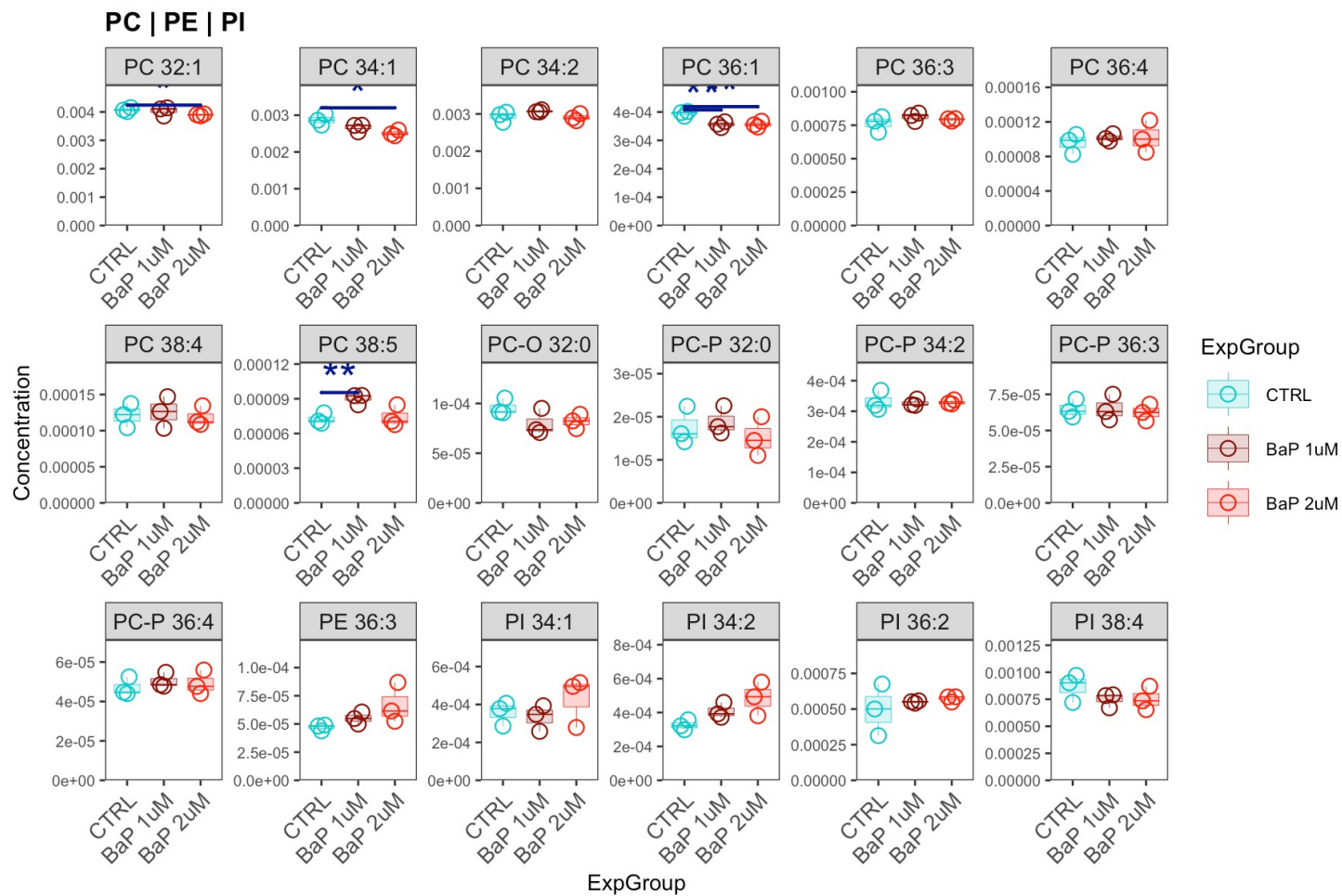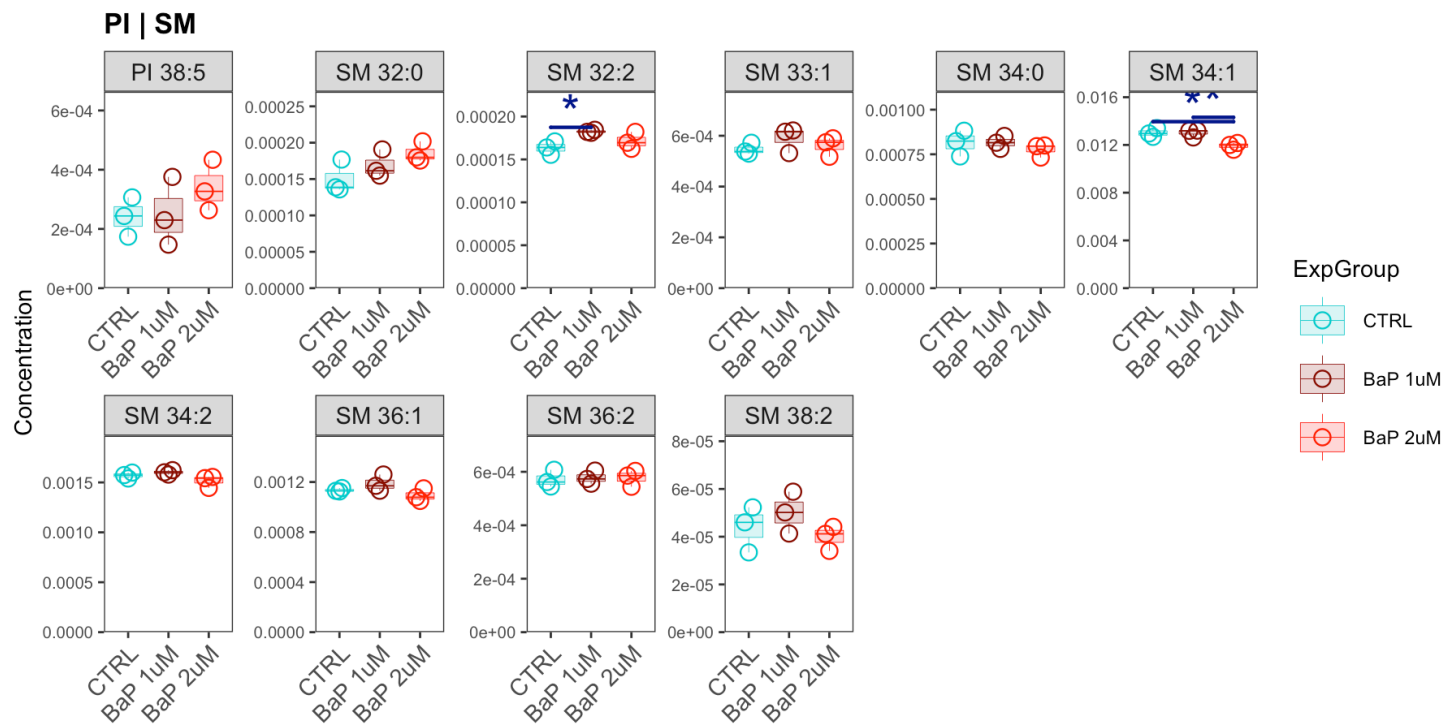
Dot/box plots of all species

Figure 5. All species quantified and passing QC

```
## [[1]]
```

PC | PE | PI

```
## 

## [[2]]
```

PI | SM

[[3]]