

1. Exploring the metabolite data

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```
metabolite = read_excel("data/MSSM-01-18ML+ CLIENT DATA TABLE 9.25.18.XLSX",  
                        sheet = "VolNormImpData",  
                        col_names = FALSE)
```

```
## New names:  
## * `` -> ...1  
## * `` -> ...2  
## * `` -> ...3  
## * `` -> ...4  
## * `` -> ...5  
## * ... and 508 more problems
```

The data in third sheet (VolNormImp) has been:

- * Volume normalized: in order to account for samples that had different volumes while performing LC-MS.
- * Imputed: missing data has been replaced with the smallest value.

```
metabolite_IDs = metabolite[10:1317, 1:12] %>%  
  set_colnames(metabolite[9, 1:12])  
write_csv(metabolite_IDs, "data/1_metabolite-details.csv", row.names = FALSE)
```