# **Metaproteomics Analysis**

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## **Preface**

This is a Quarto book.

To learn more about Quarto books visit https://quarto.org/docs/books.

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# 1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

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### 2 Run quality

In summary, this book has no content whatsoever.

### 1. Load libraries

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v forcats 1.0.0 v stringr 1.5.1
v ggplot2 3.5.1 v tibble 3.2.1
v lubridate 1.9.3 v tidyr 1.3.1
v purrr
          1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag() masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
here() starts at /home/runner/work/metaproteomics-analysis/metaproteomics-analysis
```

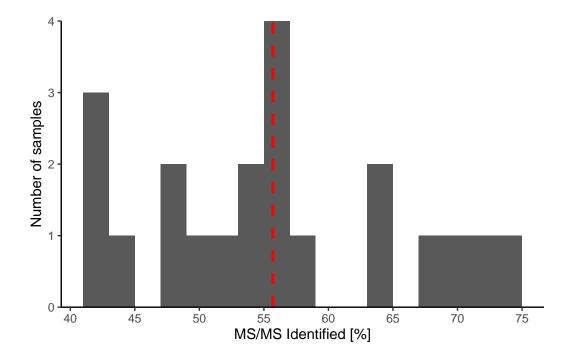
#### 2. Load data frame

```
quality <- read_tsv("rawdata/final_summary.tsv")</pre>
Rows: 21 Columns: 6
-- Column specification -----
Delimiter: "\t"
chr (2): Raw file, Experiment
dbl (4): MS/MS, MS/MS Identified, MS/MS Identified [%], Peptide Sequences Id...
i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
  3. Create a table
```

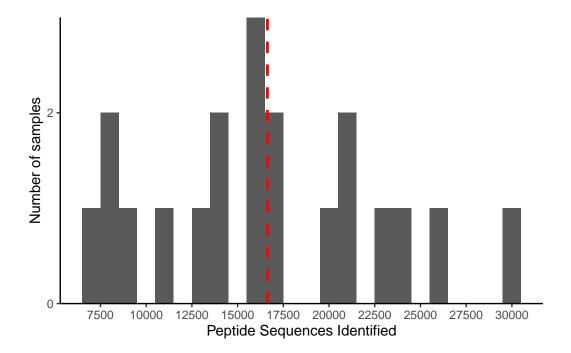
```
table %>%
 gt() %>%
 tab_stubhead(label = "landmass") %>%
cols_label()
```

Variable	Max	Min	Mean	Sd
MS/MS	76291.0	43689.0	59796.2	10313.3
MS/MS Identified	46623.0	20545.0	32962.1	6427.9
MS/MS Identified [%]	74.1	41.4	55.8	10.4
Peptide Sequences Identified	30231.0	7042.0	16630.8	6401.0

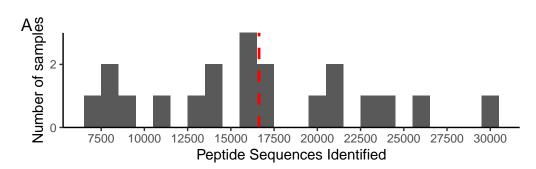
### 4. Create a histogram of the identified MS/MS

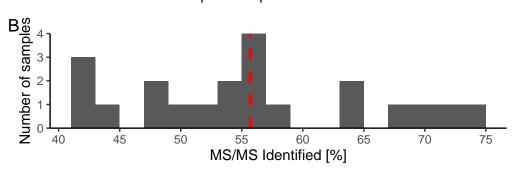


### 5. Create a histogram of the identified peptide sequences



### 6. Create a compose plot





## References

Knuth, Donald E. 1984. "Literate Programming." Comput.~J.~27~(2):~97-111.~https://doi.org/10.1093/comjnl/27.2.97.