MetaboPrep Data Preparation Summary Report

05 June, 2025

Contents

1 Project Information **2**

1.1 Overview 2

1.2 Data preparation workflow: 3

2 Summary of raw data **4**

2.1 Sample size of Project data set: 4

3 Missingness **5**

3.1 Visual structure of missingness in the raw data 5

3.2 Summary of sample and feature missingness 6

1 Project Information

This `metaboprep` report summarizes the data preparation steps for:

- **Project:** Project

1.1 Overview

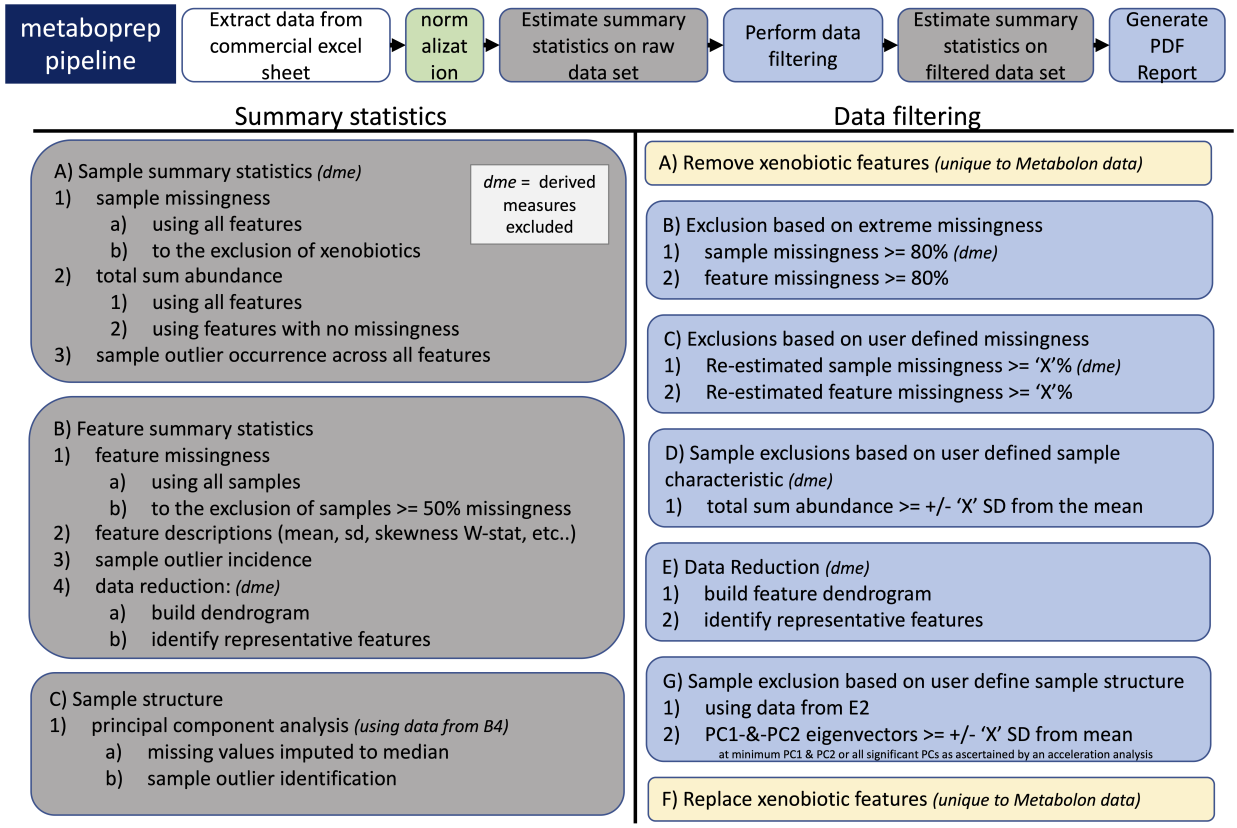
The `metaboprep` R package performs three key operations:

1. **Assessment & Summary Statistics**: Provides an initial assessment of raw metabolomics data.
2. **Data Filtering**: Applies filtering techniques to clean the dataset.
3. **Post-Filtering Assessment**: Evaluates the filtered dataset, particularly in relation to batch variables when available.

This report contains descriptive information on both raw and filtered metabolomics data for **Project**.

Please raise any issues on the GitHub issues page.

1.2 Data preparation workflow:



2 Summary of raw data

2.1 Sample size of Project data set:

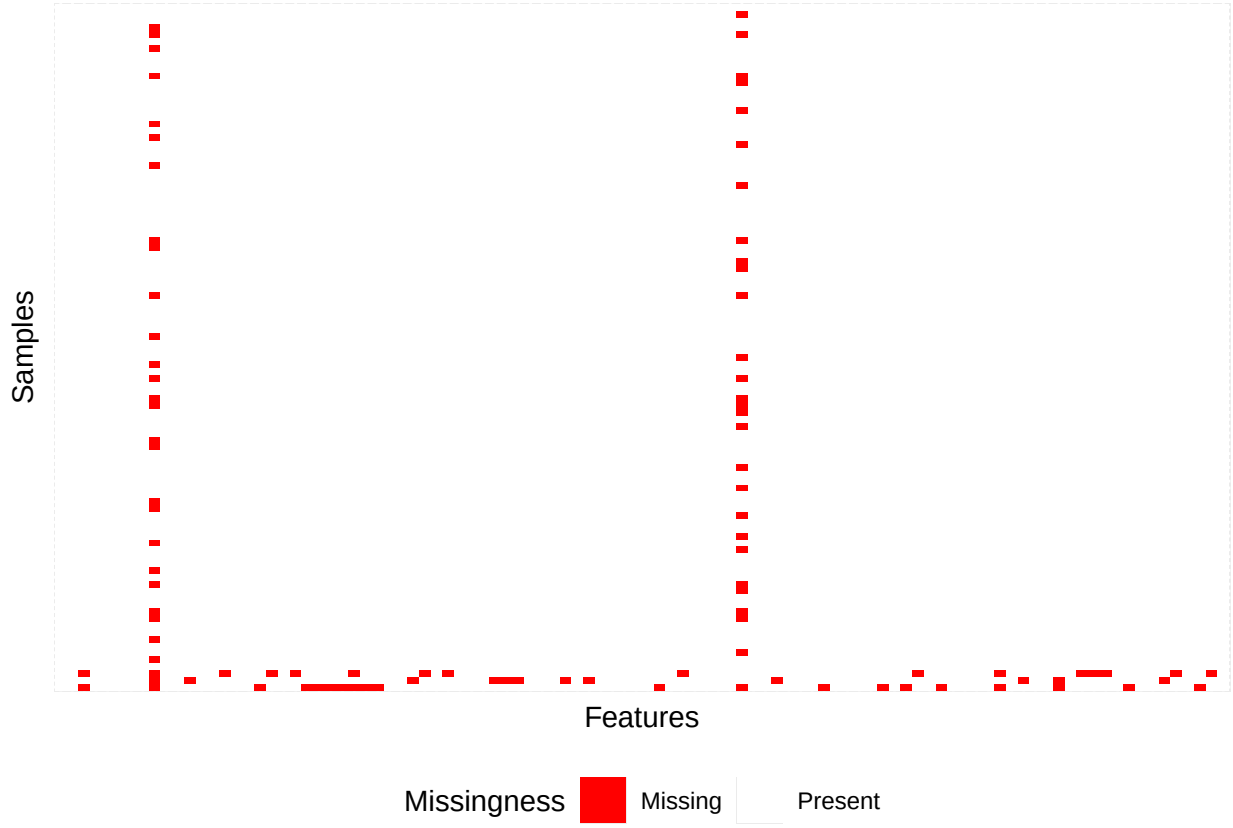
Table 1: Sample Size Summary

Dataset	Samples	Features
INPUT	100	100
QC	100	100

3 Missingness

Missingness is evaluated across samples and features using the original/raw data set.

3.1 Visual structure of missingness in the raw data



3.2 Summary of sample and feature missingness

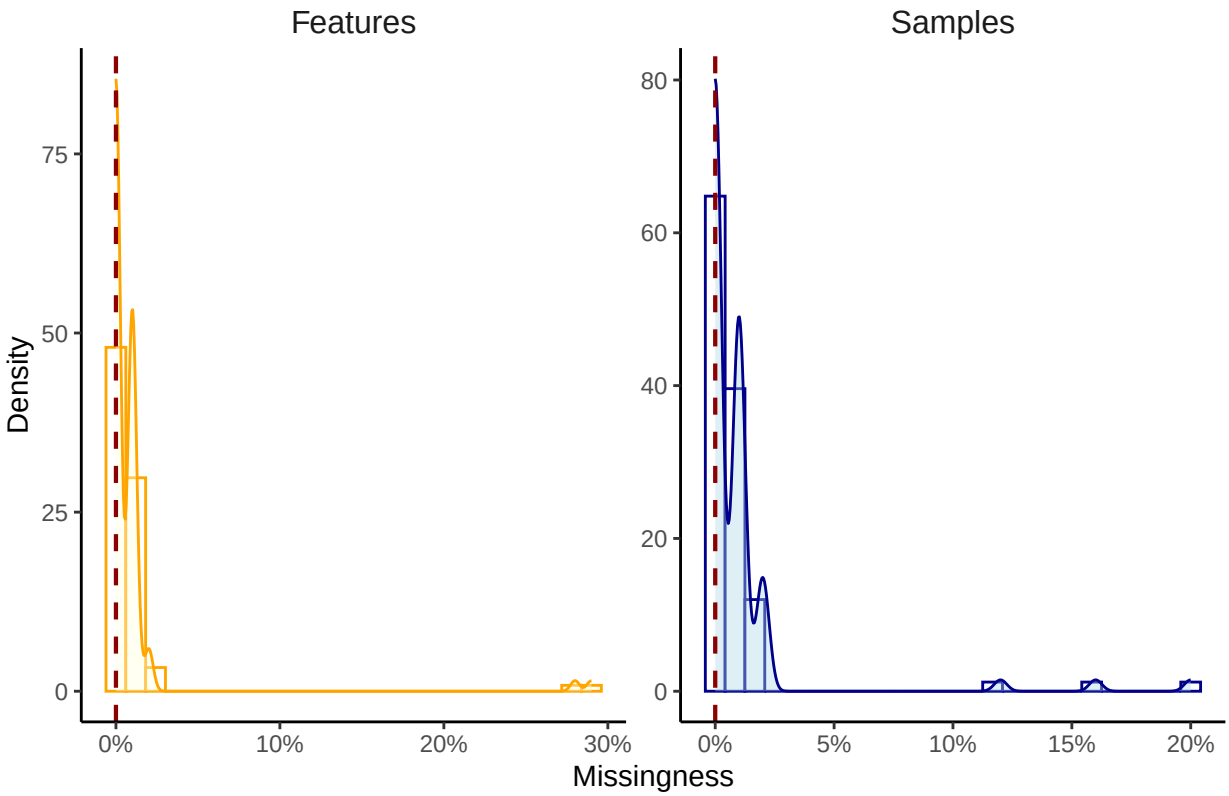


Table 2: Sample and feature missingness percentiles.

	Percentile	Features	Samples
0%	0.00	0.00	0.00
25%	0.25	0.00	0.00
50%	0.50	0.00	0.00
75%	0.75	0.01	0.01
100%	1.00	0.29	0.20

Table 3: Estimates of samples sizes under various levels of feature missingness.

Missingness....	Sample.Size
10%	90
20%	80
30%	70
40%	60
50%	50