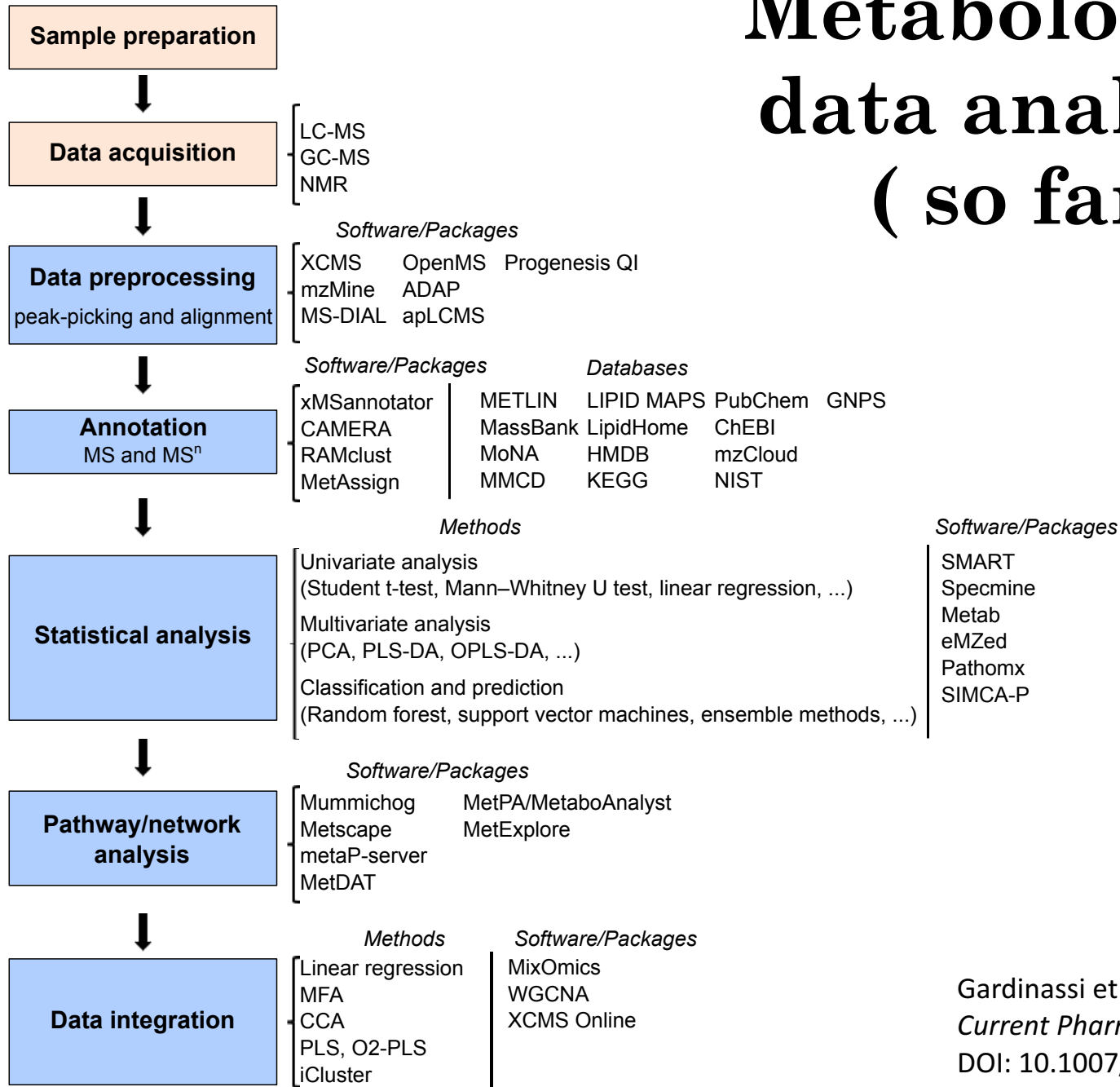


Statistical consideration in study design

- Controls, repeats, replications
- Randomization of samples
- Power and sample size
- Hypothesis testing

Metabolomics data analysis (so far)



Gardinassi et al (2017)
Current Pharmacology Reports,
 DOI: 10.1007/s40495-017-0107-0.

Statistical analysis

- ANOVA
- Parametric vs nonparametric
- Shrinkage
- False discovery rate (FDR)
- many specialized –omics differential tools