

mixOmics: a framework based on modules (for mixOmics publication)

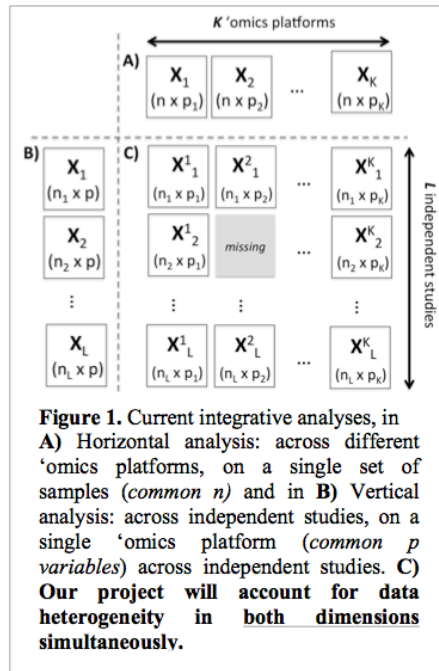
mixMC: multivariate insights into Microbial Communities

PCA, sPLSDA with multilevel and log ratio transformation for compositional data
graphlan cladogram plots, contribution plots

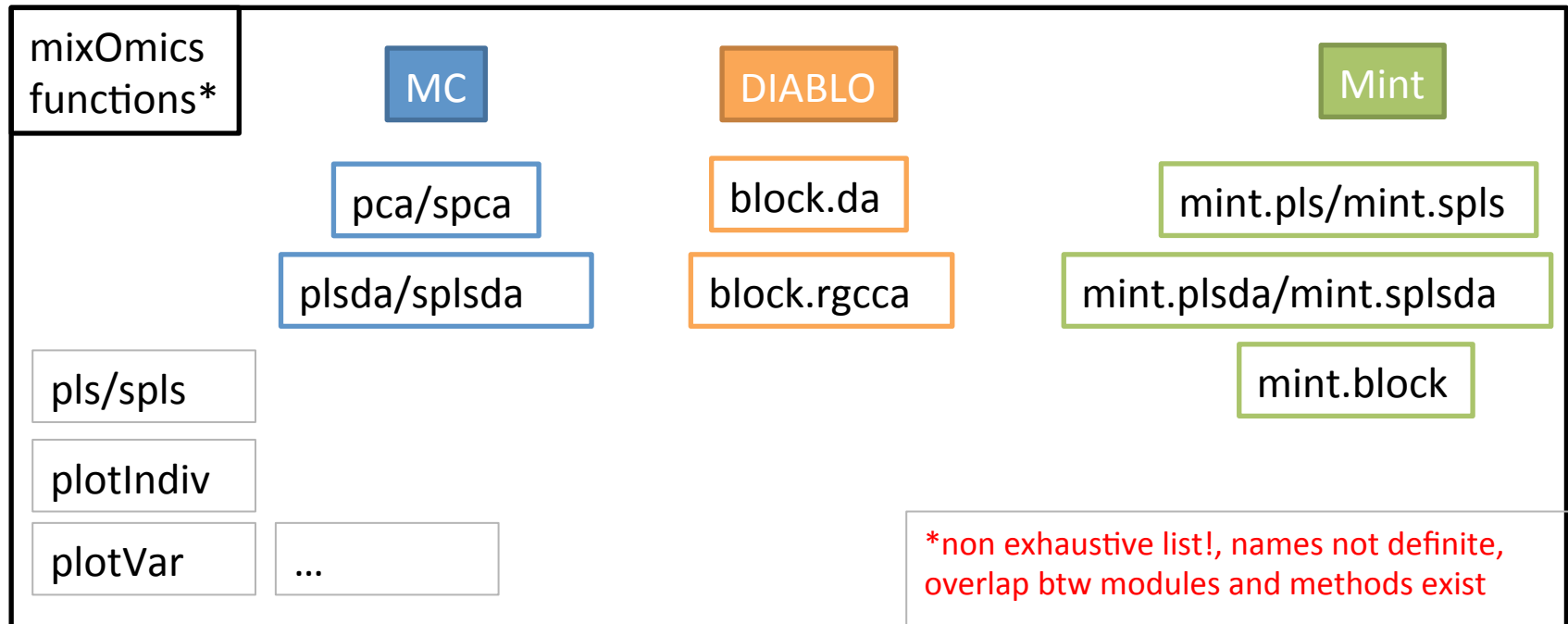
mixDIABLO: Data Integration Analysis for Biomarker discovery using Latent
variable approaches for Omic studies

sGCCA Discriminant Analysis
circos plots, dataframe plots

mixMint: mixOmics for multi-group Integrative analysis
novel multi group pls and plsda, sgccda analyses



my challenging 10% chance of success grant for 2017



Feb

V5.2.0

March

Update to **V6.0.0**:

- all pls-like functions will be wrappers of a single function – does not change calls to functions
 - block.pls ('horizontal analysis', multiblock integration, DIABLO module) ,
 - mint.pls ('vertical analysis', multigroup analysis)
 - mint.block.pls (horiz + vertical)
- DIABLO visualisation functions: circos plots, plotIndiv, plotVar
- internal arguments added in functions (e.g. plsda(X, Y, log.ratio =TRUE)
 - logratio (mixMC module, in plsda)
 - multilevel (in pls, plsda, pca)

=> **manuscripts multigroup (Florian) and Diablo (Amrit)**

April

- CRAN submission V6.0.0; include % contribution to each function
 - **submission of multigroup and DIABLO papers**
 - update mixOmics website modules: DIABLO (Florian), mixMC (FR, VL)
- => manuscript mixOmics (Florian first author, mixOmics team, Amrit, Benoit G)
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May

- **submission mixOmics paper**
 - Update v6.1.0
 - unifying "mixOmics" function (to discuss)
 - which.function.to.use(). Ask questions to the user to determine which function is appropriate to use
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June / July

- UserR/Workshops
- Expand to other fields (brain imaging, plants, metabolomics, ...)
- Marketing / Business Devel aspects