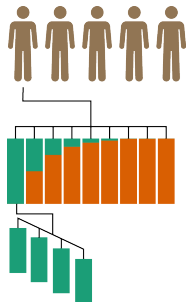


A

Count Table Generation

Assessment Dataset



Bioinformatic Pipeline

	PreA	PreB	PreC	PreD	T1A	T1B	T1C	T1D	T2A	T2B	T2C	T2D	T3A	T3B	T3C	T3D	PostA	PostB	PostC	PostD
A																				
B																				
C																				
D																				
E																				
F																				
G																				

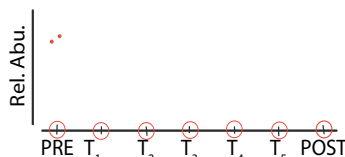
B

Feature Types

Unmixed-Specific

Features only observed in unmixed samples (PRE or POST)

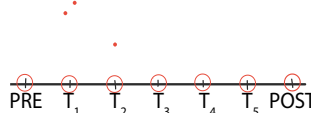
AFP & Spar



Titration-Specific

Features only observed in titrations.

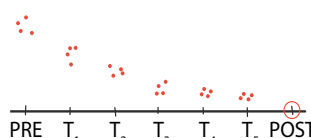
AFP & Spar



Pre-Specific

Features observed in all PRE PCR replicates and no POST PCR replicates.

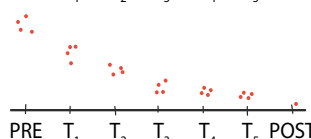
Spar, Rel, & Diff



Pre-Dominant

Features observed in all PRE PCR replicates and one or more POST PCR replicates with a log FC > 5 between PRE and POST.

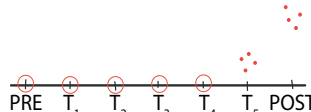
Spar, Rel, & Diff



Post-Specific

Features observed in all POST PCR replicates and no PRE PCR replicates.

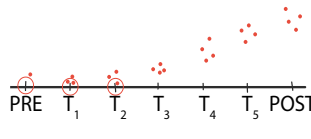
Spar & Rel



Post-Dominant

Features observed in all POST PCR replicates and one or more PRE PCR replicates with a log FC < -5 between PRE and POST.

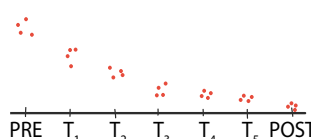
Spar & Rel



Informative

Features present in all or none of the PRE and POST PCR replicates, observed in any 14 of 28 titration PCR replicates, and a 2-fold different between PRE and POST.

Spar & Rel

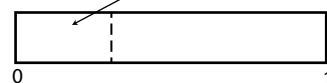


C

Assessment Metrics

Artificial Feature Proportion (AFP)

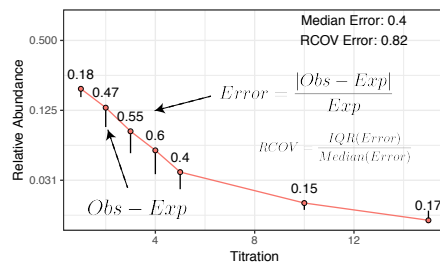
proportion explained by sampling effect



Sparsity (Spar)

$$Spar = \frac{\#0s}{Total\ Cells}$$

Relative Abundance (Rel)



Differential Abundance (Diff)

