

Clinical demo dataset - FMT

Fecal Microbiome Transplants

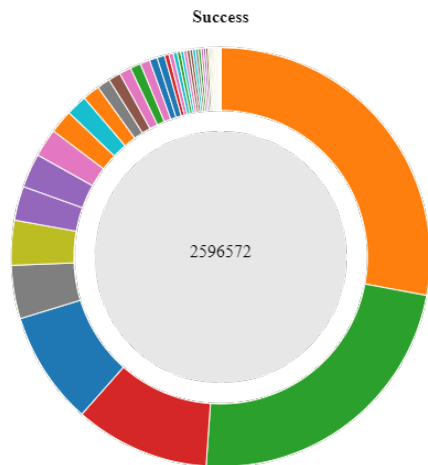
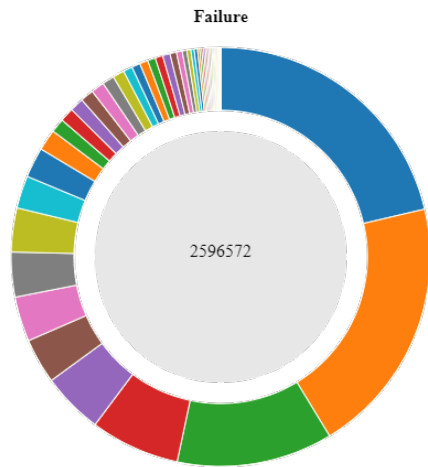


For clinical pathogens

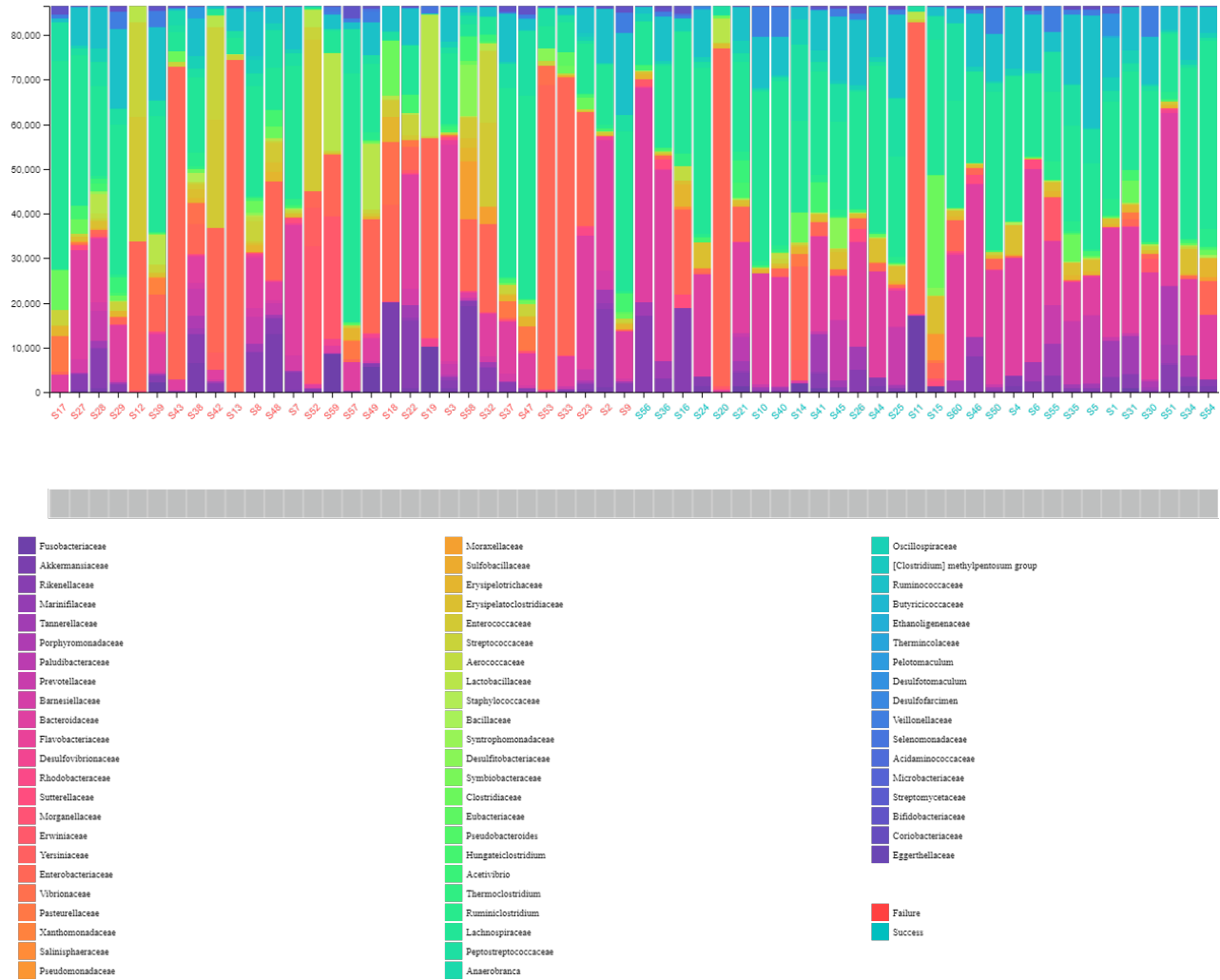
QC Step	S1	S2	S3	S4	S5	S6
Basic Statistics	PASS	PASS	PASS	PASS	PASS	PASS
Per Base Sequence Quality	PASS	PASS	PASS	PASS	PASS	PASS
Per Sequence Quality Scores	PASS	PASS	PASS	PASS	PASS	PASS
Per BaseN Content	PASS	PASS	PASS	PASS	PASS	PASS
Adapter Content	PASS	PASS	PASS	PASS	PASS	PASS

Abundance by group

Click on a donut slice to display abundance by sample.



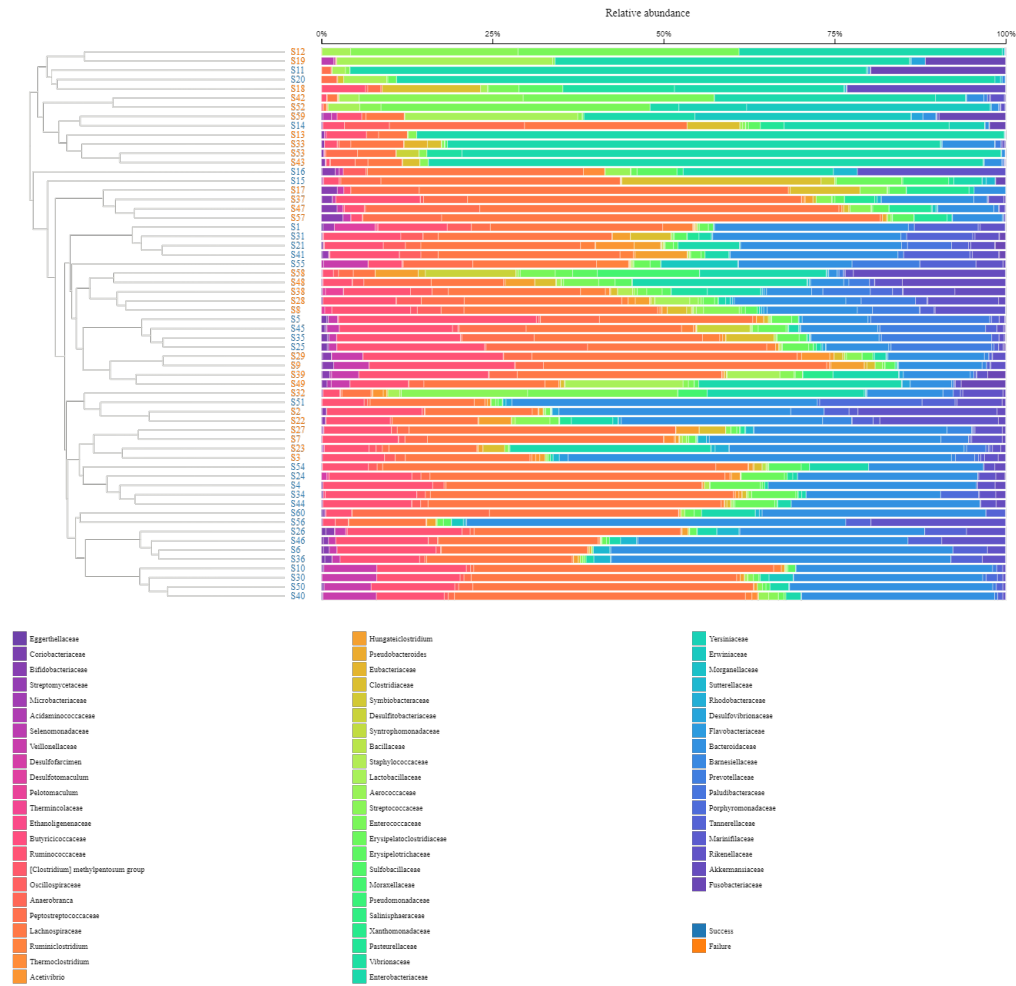
Abundance view for each group composing the "FMT status group" metadata for every "family level" taxa. The bar plots on the right show the normalized counts for each sample in each group.



Stacked bar chart showing relative abundance profiles at "family level" for every selected samples. Sample labels are colored by group composing the "FMT status group" metadata.

Not for diagnostic use

Sample clustering

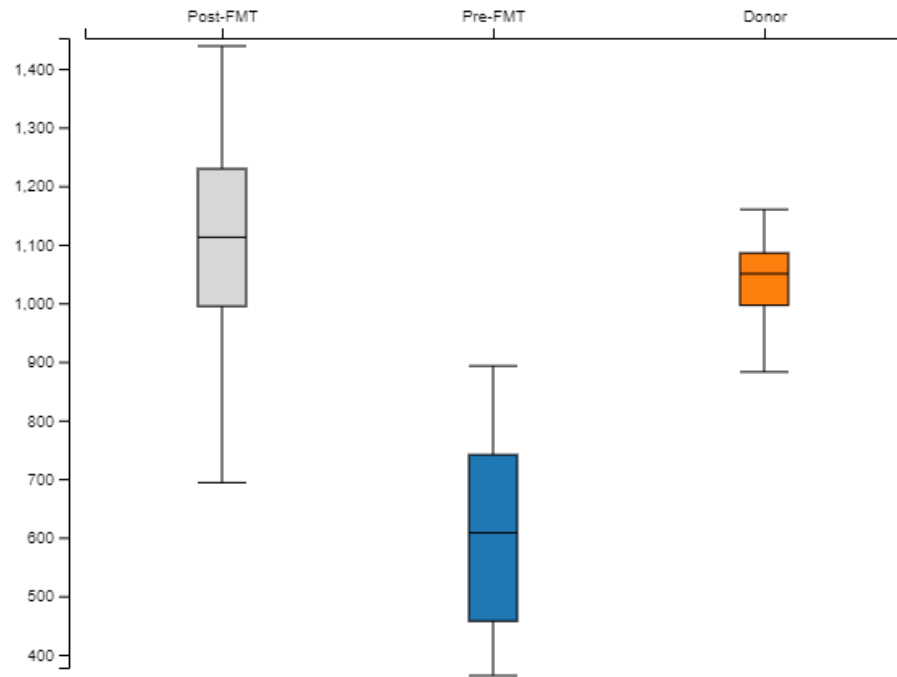


Average-linkage clustering of the Carberra distances between abundances at "family level". Samples are colored by group composing the "FMT status group" metadata. Relative abundance profiles of the corresponding samples are displayed on the right part.

Not for diagnostic use

Alpha diversity, Richness (ACE)

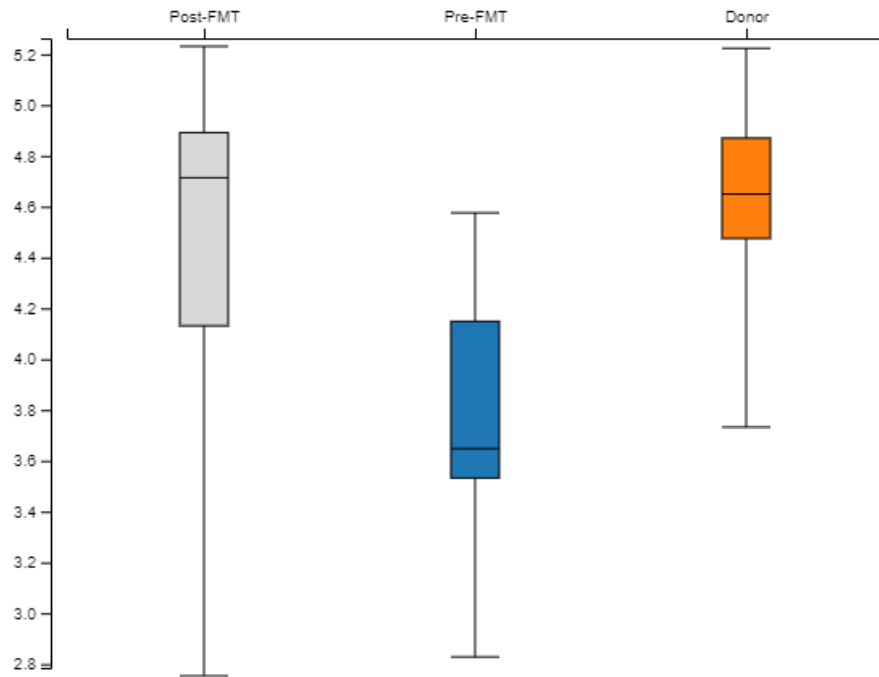
Box plots show the ACE estimated alpha-diversity distribution among groups for the FMT type metadata based on the OTU identified at a 97% similarity level.



Comparison	P-value	Significance
Donor_vs_PostFMT	9.5143e-2	
Donor_vs_PreFMT	1.3073e-5	***
PostFMT_vs_PreFMT	2.2013e-6	***

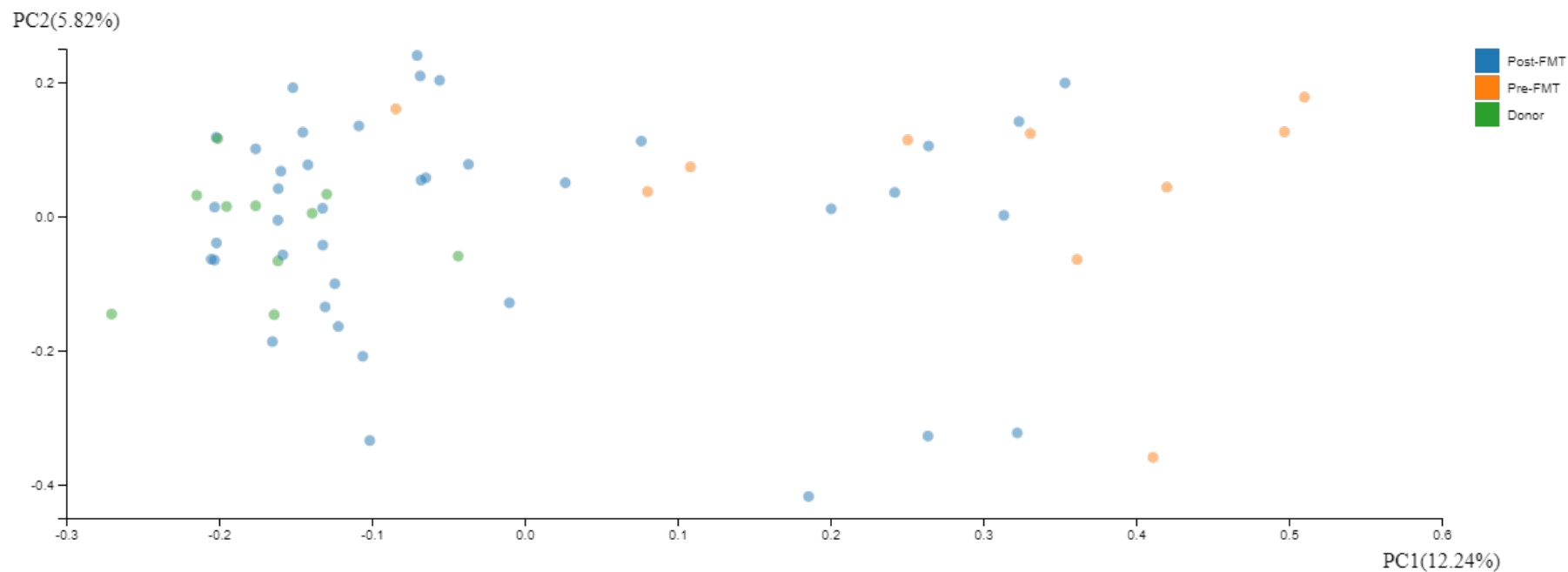
Alpha diversity, Evenness (Shannon index)

Box plots show the Shannon estimated alpha-diversity distribution among groups for the FMT type metadata based on the OTU identified at a 97% similarity level.



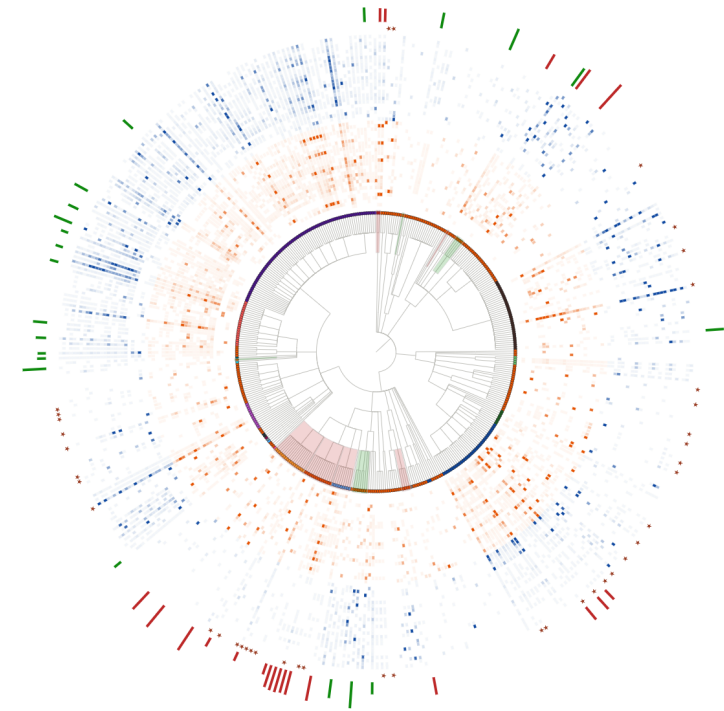
Comparison	P-value	Significance
Donor_vs_PostFMT	2.4888e-1	
Donor_vs_PreFMT	9.6488e-4	***
PostFMT_vs_PreFMT	4.3755e-3	**

Beta diversity, Bray-Curtis dissimilarity (p-value = 0.001)



Principal Coordinates Analysis (PCoA) visualization of the beta diversity (estimated using the Bray-Curtis distance). Beta diversity was calculated based on the OTU identified at a 97% similarity level. Each dot represents a sample and is colored by group composing the FMT type metadata. The distance between the dots represents the similarity of the samples. The closer together, the more similar the diversity between the samples.

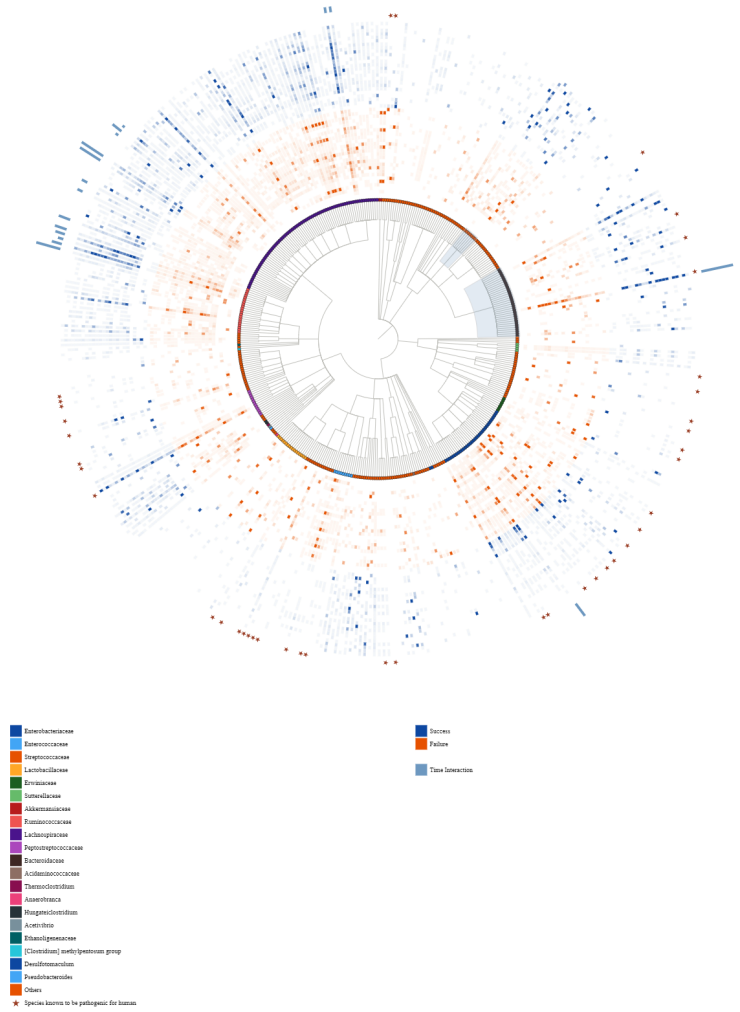
Circular dendrogram



Tree of organisms present in all samples. The color intensity of external cells corresponds to the abundance of taxa in a sample (heatmap). There is one circle of cells per sample, colored by group composing the FMT status group metadata. Leaves are colored by "family level". Stars indicate potential pathogens. In case of successful differential abundance analysis comparing "Success vs Failure", external bars show the log₂(FC) of significantly different abundances at the level of the leaves (no matter the taxonomic level) and inside pie layers show taxa having significantly different abundances for the "family level".

Not for diagnostic use

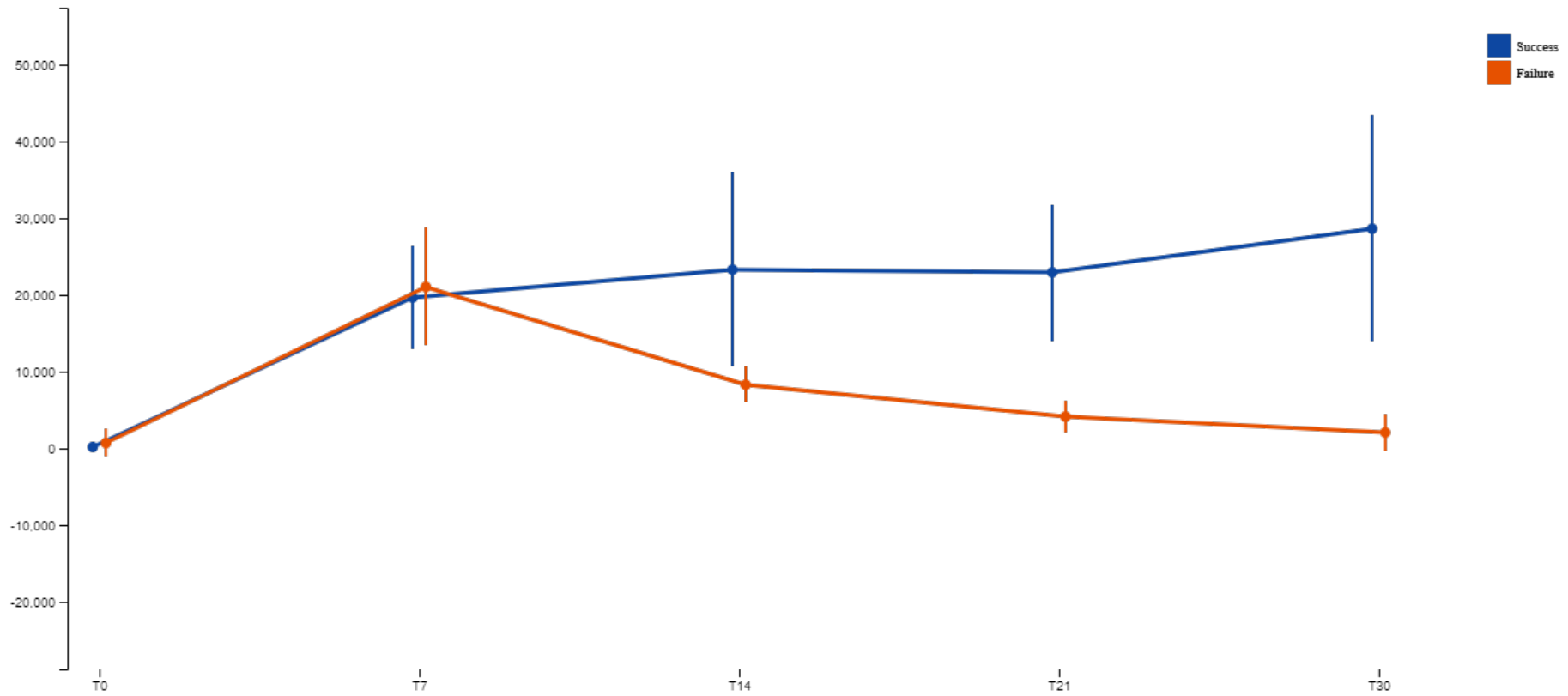
Circular dendrogram



Tree of organisms present in all samples. The color intensity of external cells corresponds to the abundance of taxa in a sample (heatmap). There is one circle of cells per sample, colored by group composing the FMT status group metadata. Leaves are colored by "family level". Stars indicate potential pathogens. In case of successful time interaction analysis comparing Success vs Failure, external bars show the interaction log₂(FC) of significantly different abundances at the level of the leaves (no matter the taxonomic level) and inside pie layers show taxa having significantly different abundances using time interaction for the "family level".

Not for diagnostic use

Bacteroidaceae longitudinal analysis



Graph showing the evolution of the abundance (normalized counts) of "Bacteroidaceae" over time, for "Success vs Failure".