

Supplemental Table 5. PERMANOVA of Bray-Curtis distances for 16S and RNA-Seq datasets. PERMANOVA is performed specifically for the 15 samples used for RNA-Seq and the corresponding 16S data. Significance of experimental factors 'ModuleName' and 'Replicate' were calculated using the 'adonis' function within the R 'vegan' package.

16S Dataset

Factor	Degrees of Freedom	Sums of Square	Mean Square	F.Model	R2	Pr(>F)
ModuleName	4	3.8754175	0.9688544	6.382776	0.7092209	0.001 ***
Replicate	6	0.9817452	0.1636242	1.07795	0.1796643	0.374
Residuals	4	0.607168	0.151792		0.1111148	
Total	14	5.4643307				1

RNA-Seq Dataset

Factor	Degrees of Freedom	Sums of Square	Mean Square	F.Model	R2	Pr(>F)
ModuleName	4	0.9272224	0.23180561	6.4071934	0.7584665	0.001 ***
Replicate	6	0.150558	0.025093	0.6935799	0.1231562	0.787
Residuals	4	0.1447159	0.03617896		0.1183773	
Total	14	1.2224963				1