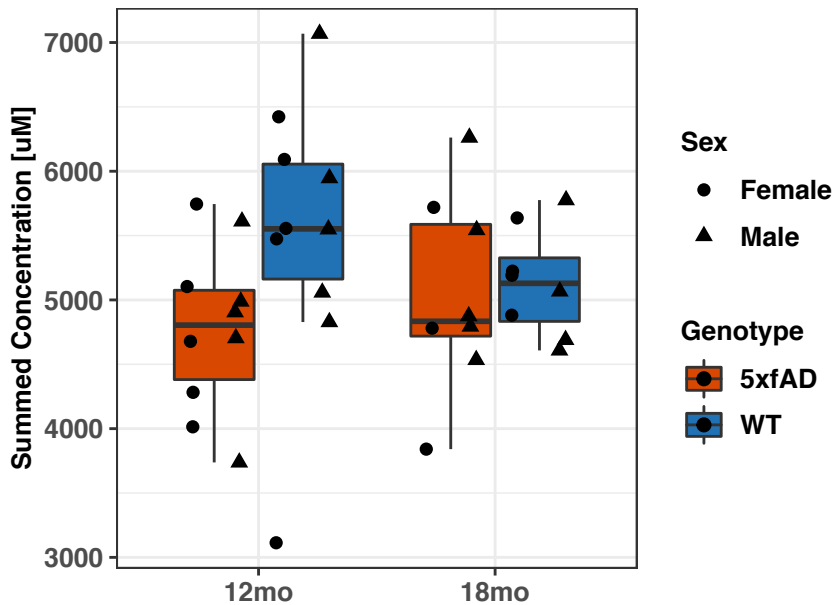
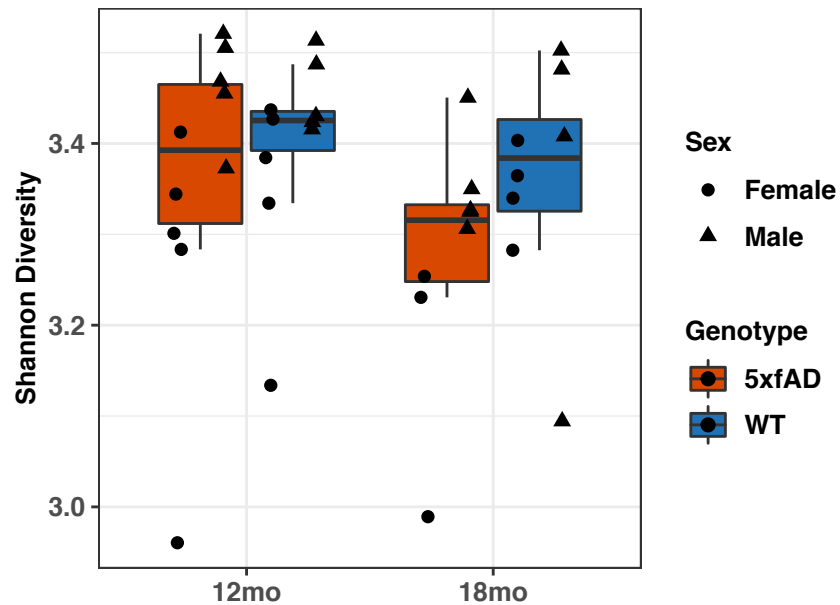


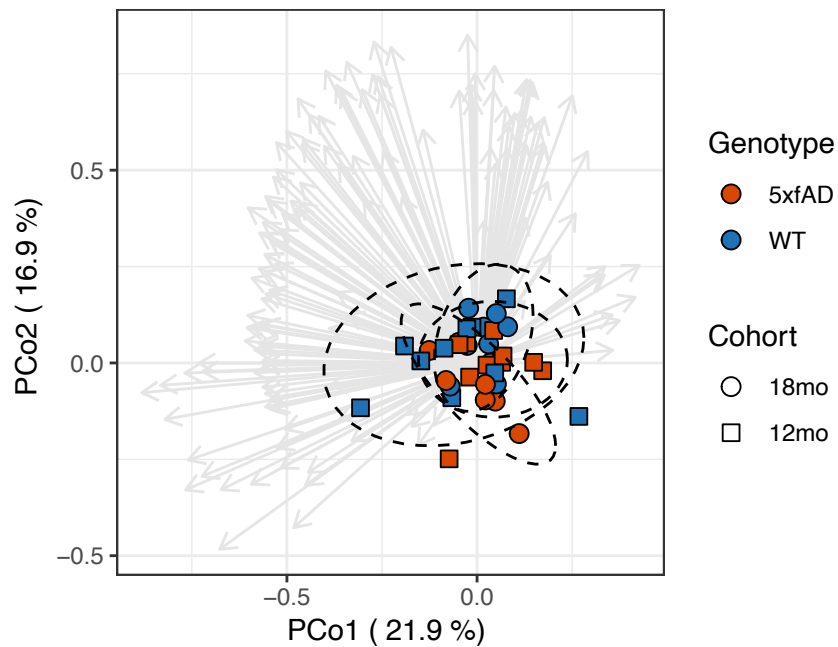
a. Total Validated Metabolite Concentration



b. Shannon Diversity



c. PCOA



d. PERMANOVA

	Df	SumsOfSqs	MeanSqs	F.Model	R2	Pr(>F)
Genotype	1	0.2769	0.027690	1.90211	0.04891	0.104
Sex	1	0.03924	0.039241	2.69553	0.06931	0.037
Age	1	0.01423	0.014235	0.97782	0.02514	0.396
Housing ID	14	0.22293	0.015924	1.09382	0.39377	0.357
Residuals	18	0.26204	0.014558		0.46286	
Total	35	0.56614			1.00000	