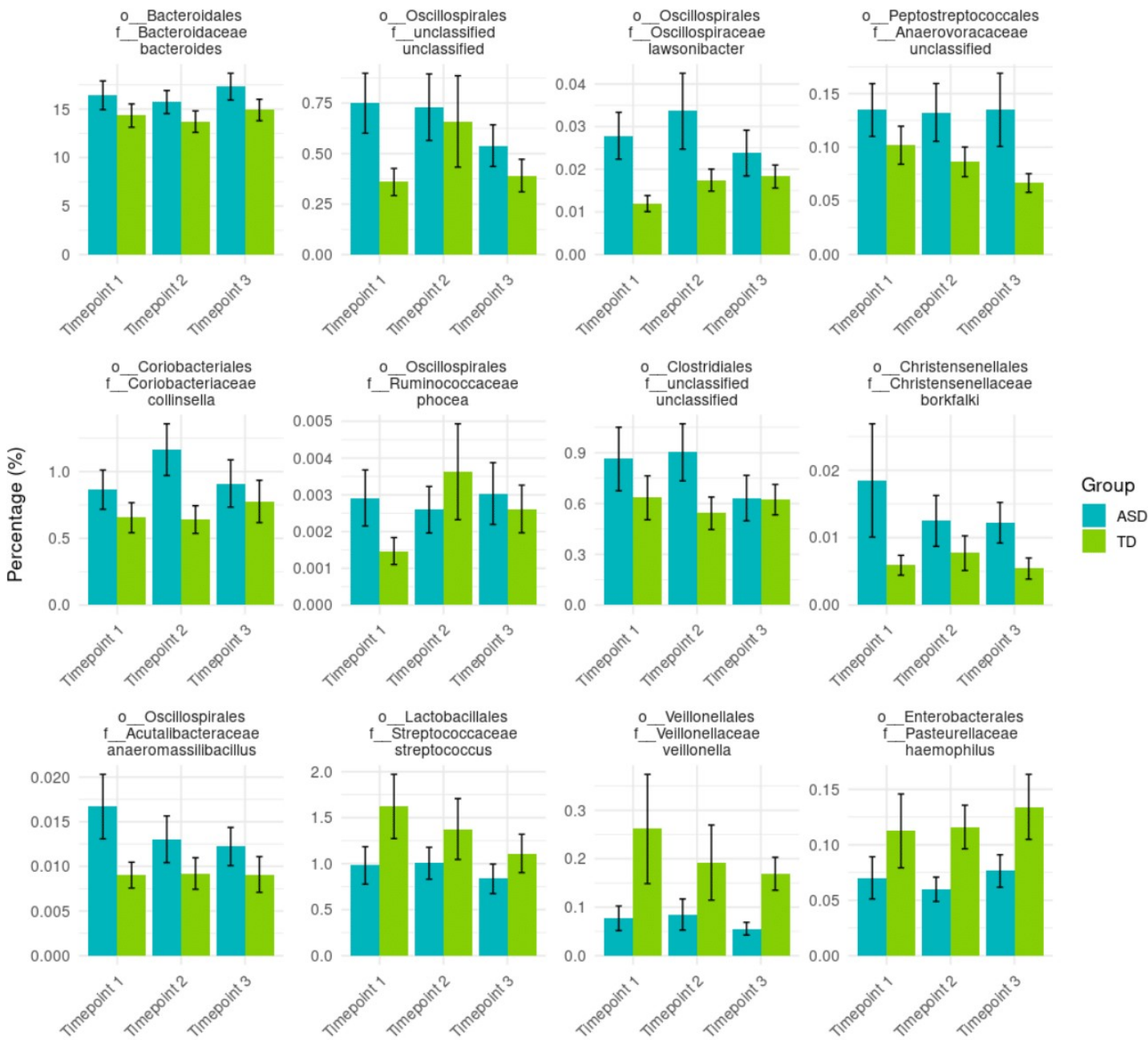


A

Order	Family	Genus	Enrichment	Method
<i>Bacteroides</i>	Bacteroidaceae	<i>Bacteroides</i>	ASD	DESEQ2
<i>Oscillospirales</i>	<i>Unclassified</i>	<i>Unclassified</i>	ASD	DESEQ2
<i>Oscillospirales</i>	<i>Oscillospiraceae</i>	<i>Lawsonibacter</i>	ASD	DESEQ2, Mtgseq
<i>Peptostreptococcales</i>	<i>Anaerovoracaceae</i>	<i>Unclassified</i>	ASD	DESEQ2, Mtgseq
<i>Coriobacteriales</i>	<i>Coriobacteriaceae</i>	<i>Collinsella</i>	ASD	Mtgseq
<i>Oscillospirales</i>	<i>Ruminococcaceae</i>	<i>Phoce</i> a	ASD	Mtgseq
<i>Clostridiales</i>	<i>Unclassified</i>	<i>Unclassified</i>	ASD	DESEQ2
<i>Christensenellales</i>	<i>Christensenellaceae</i>	<i>Borkfalki</i>	ASD	Mtgseq
<i>Oscillospirales</i>	<i>Acutalibacteraceae</i>	<i>Anaeromassilibacillus</i>	ASD	Mtgseq
<i>Lactobacillales</i>	<i>Streptococcaceae</i>	<i>Streptococcus</i>	TD	Mtgseq
<i>Veillonellales</i>	<i>Veillonellaceae</i>	<i>Veillonella</i>	TD	DESEQ2, Mtgseq, ANCOM
<i>Enterobacterales</i>	<i>Pasteurellaceae</i>	<i>Haemophilus</i>	TD	Mtgseq, ANCOM

B



Supplementary Figure 5: Differentially abundant genera in ASD over 3 time points. ASV counts were aggregated by genus level annotation, ASVs that could not be assigned an annotation using the StrainSelect database were removed. Supp. 4A shows the taxonomic annotation of the genus, the phenotype the genus was enriched in, and the analysis method that identified it. Supp. 4B shows the relative percent of that genus in either group ASD or TD. MtgSeq refers to MetagenomeSeq.