

Table S6. Dominant taxa in CF-FACs by TEA treatment.

Phylum	Class	Order	Subgroup	SG	SG + NO3	SG + Fe	SG + SO4	P
Archaea								
Methanobacteria	Methanobrevibacter	Methanobacterium_subterraneum		7.7 +/- 2.3	0	7 +/- 0.9	6.8 +/- 3.8	**
Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Methanosarcina	3.1 +/- 1.1	0	2.2 +/- 1.1	0	***
Bacteria								
Acidobacteria	Acidobacteriales	UA1		2.4 +/- 0.7	0	2.6 +/- 0.5	0.5 +/- 0	***
Actinobacteria	Actinobacteridae	Actinomycetales	Nocardioideaceae; Propioniceimonas	0	0	0	0	
Bacteroidetes	Bacteroidales	BCf7-02		7.7 +/- 1.9	0.1 +/- 0.1	4.6 +/- 1.4	0	***
Bacteroidetes	Bacteroidales	Bacteroidetes_bacterium_PPf50E2; E1-K9; BA017		0	0	0	0	
Bacteroidetes	Bacteroidales	Dysgonomonaceae		0	0	0	0	
Bacteroidetes	Bacteroidales	Proteophilaceae		0	0	0	0	
Firmicutes	Bacillales	Bacillaceae	Bacillus	0	0	0	0	
Firmicutes	Bacillales	Paenibacillaceae	Paenibacillus	0.1 +/- 0.1	0	0.1 +/- 0.1	0	
Firmicutes	Clostridia	Clostridiales		0	0	0.1 +/- 0	7.7 +/- 0.7	***
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0.1 +/- 0	0.9 +/- 1.4	2.7 +/- 1.3	11.6 +/- 3.1	***
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0	34 +/- 57.1	0.1 +/- 0.1	0.1 +/- 0.2	
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0	0.1 +/- 0.2	0	0	
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0.8 +/- 0	0.1 +/- 0.1	3.7 +/- 2.1	4.5 +/- 1	**
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0	0.1 +/- 0.1	0.1 +/- 0	0	
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	1.7 +/- 0.3	0	0	0.5 +/- 0.1	***
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0	0	0	0	
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0	0	0	0	
Firmicutes	Clostridia	Clostridiales	Clostr; Clostridium	0	0	0	0	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	0	63.9 +/- 55.3	4.3 +/- 1.3	3.1 +/- 1.7	*
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	33.3 +/- 4.1	0	23.7 +/- 8.7	0	***
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	0.4 +/- 0.1	0	0.1 +/- 0.1	0	***
Firmicutes	Clostridia	Clostridiales	Clostridium aminovalericum	0	0	0	0	
Firmicutes	Clostridia	Clostridiales	Faecalibacterium	2.3 +/- 0.3	0	0.6 +/- 0.3	0.1 +/- 0	***
Firmicutes	Clostridia	Clostridiales	Ruminococcus	5.2 +/- 1.7	0.1 +/- 0.2	12.5 +/- 1.8	32 +/- 2.6	***
Firmicutes	Clostridia	Clostridiales	Ruminococcus; Ruminococcus_bromii	0	0	0	0	
Firmicutes	Clostridia	Clostridiales	UC7-69	0	0	0	0	
Proteobacteria	Alphaproteobacteria	Ellin329		25.3 +/- 2.5	0.1 +/- 0.1	28.9 +/- 3.6	26.6 +/- 3.4	***
Proteobacteria	Alphaproteobacteria	Rhizobiales		0	0	0	0	*
Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae; Desulfovibrio	0.6 +/- 0.1	0	0.7 +/- 0.5	0	*
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae; Enterobacter	0	0 +/- 0.1	0	0	
Eukaryota								
stramenopiles	Oomycetes	Peronosporales	Phytophthora	0	0	0	1 +/- 1.2	

P .<0.1; * <0.05; ** <0.01; *** <0.001