

Table S4b. Significantly upregulated or down regulated gut microbiome species among the species of Table S4a.

Type	species	fc (C vs. N)	anova_value
Tumor promoting bacteria	Fusobacterium_nucleatum	61.4	0.001557353
Tumor promoting bacteria	Fusobacterium_sp_oral_taxon_370	363	0.001382275
Tumor promoting bacteria	Parvimonas_micra	57.1	0.028318681
Anti-tumor bacteria	Bifidobacterium_longum	0.398	0.037244477
others	Enterobacter_hormaechei	6.23	0.021654033
others	Firmicutes_bacterium_CAG:129	13.3	0.04279676
others	Firmicutes_bacterium_CAG:176_63_11	24.1	0.024980046
others	Intestinimonas_butyriciproducens	4	0.047651565
others	Peptostreptococcaceae_bacterium	0.602	0.049086807
others	Fusobacterium_pseudoperiodonticum	44.6	0.003420016
others	Bacteroidales_bacterium_KA00251	139	0.035594929
others	Clostridium_sp_AT4	0.495	0.011020144