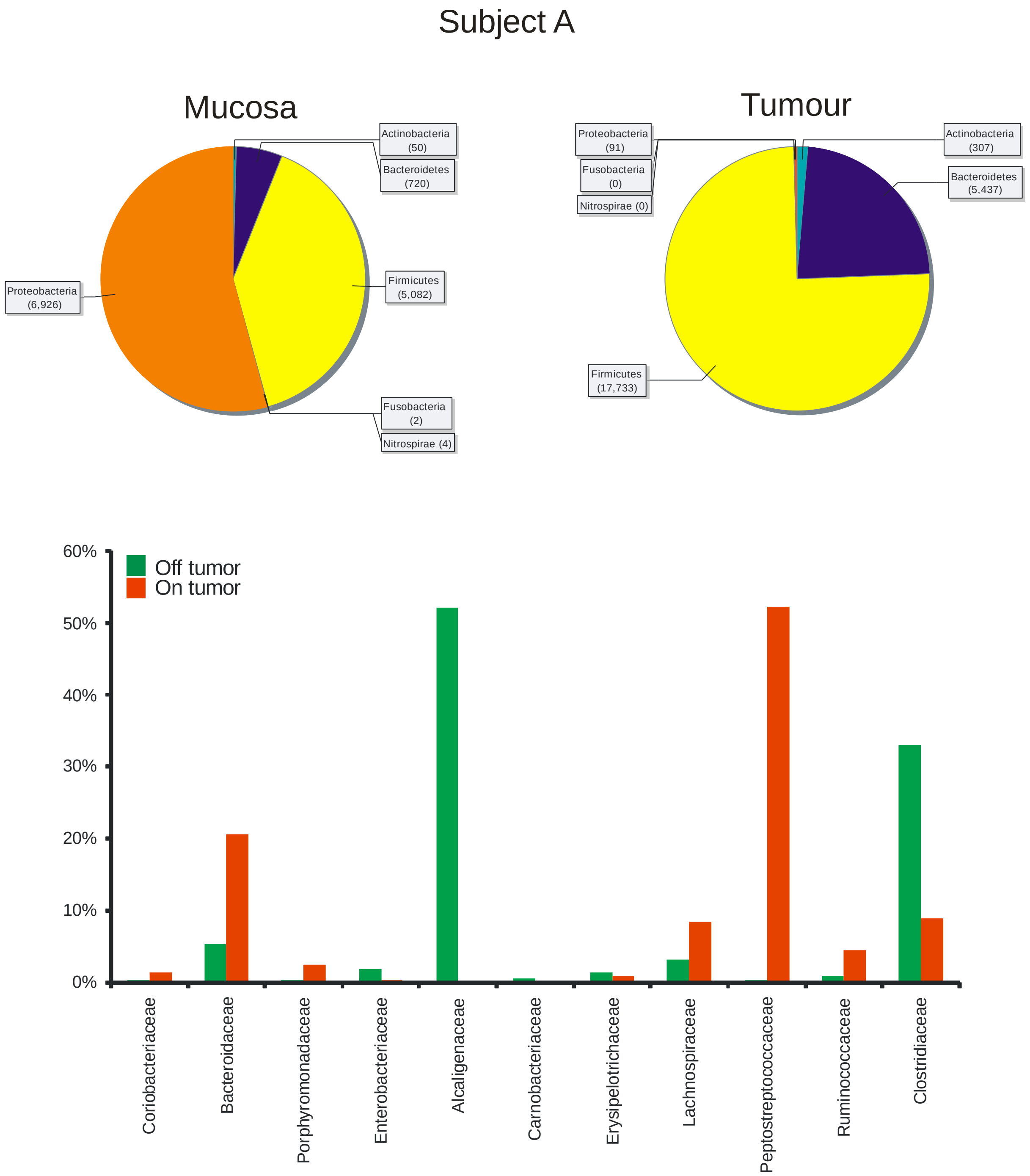
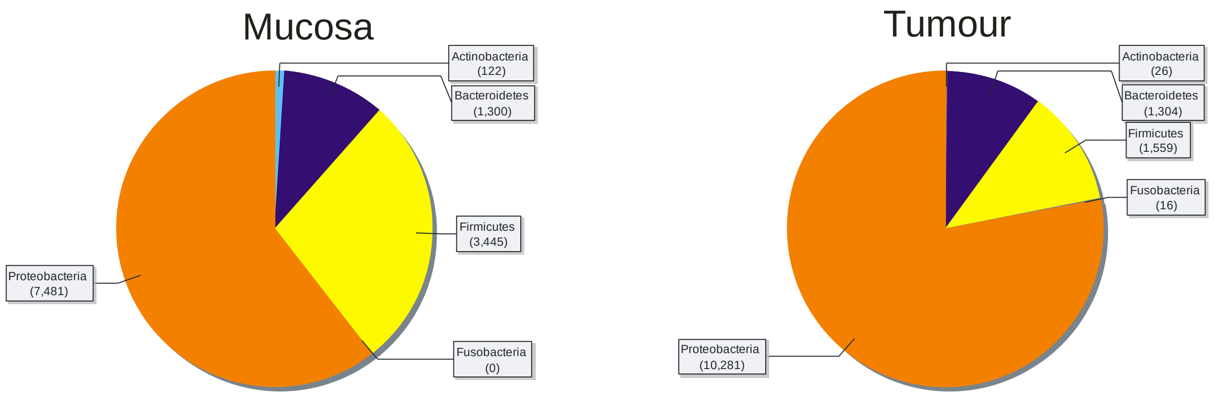
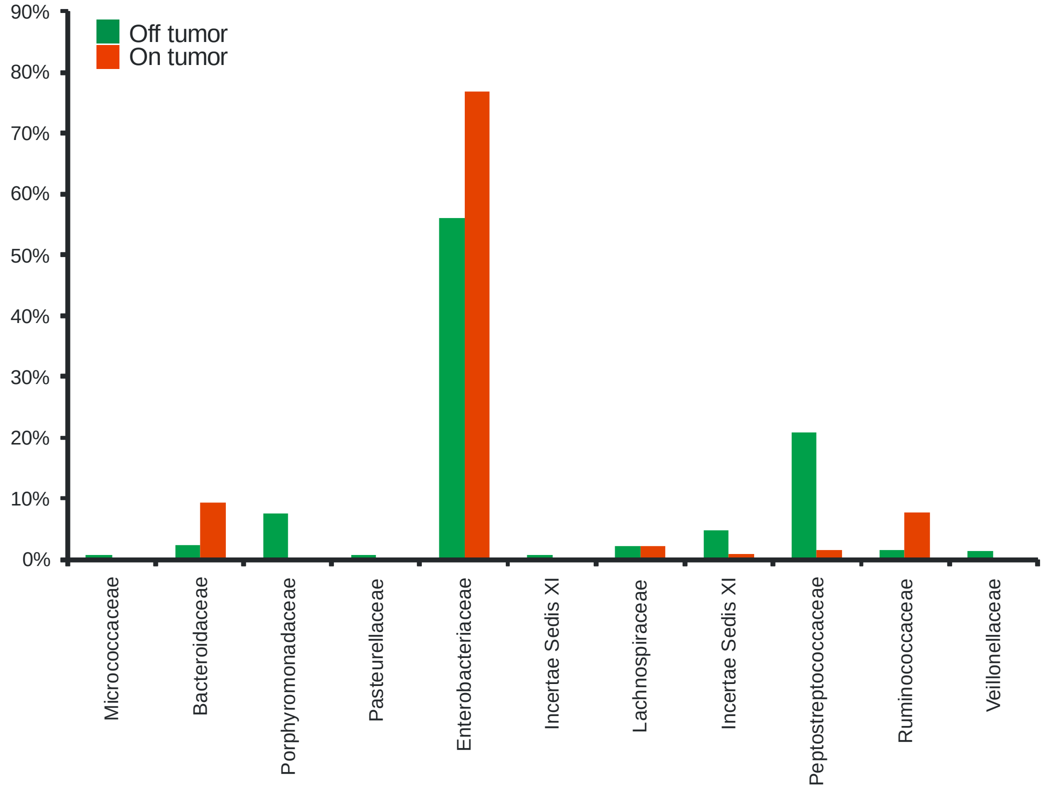
Figure S3. Taxonomic affiliation of the 16S rRNA gene reads for each paired sample set from subjects ***A-F*** and the combined samples (***G***). The figures were generated using MEGAN [1,2] and show in which PHYLA (piecharts) and families (barcharts) the main alterations of levels of reads are found. In the barchart only families which were greater than 1% of the community are shown.

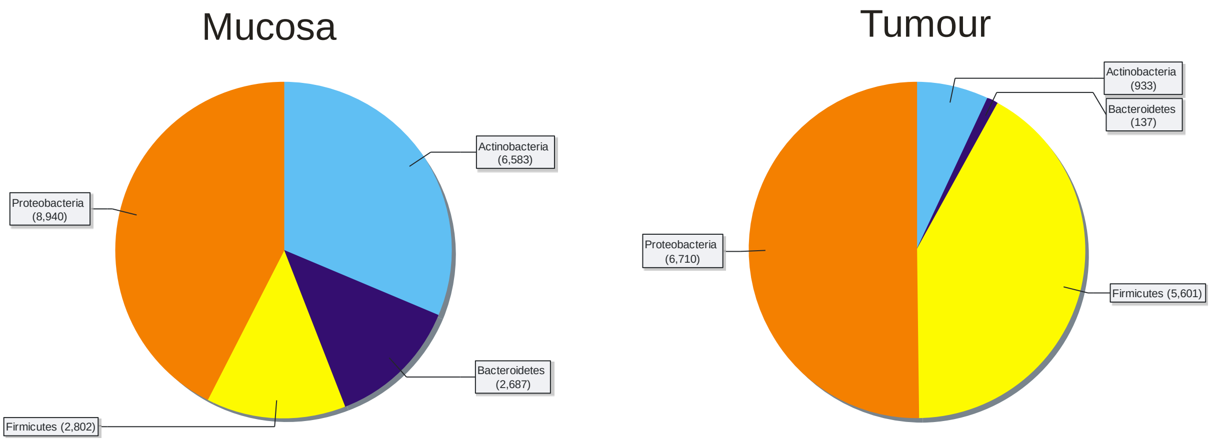


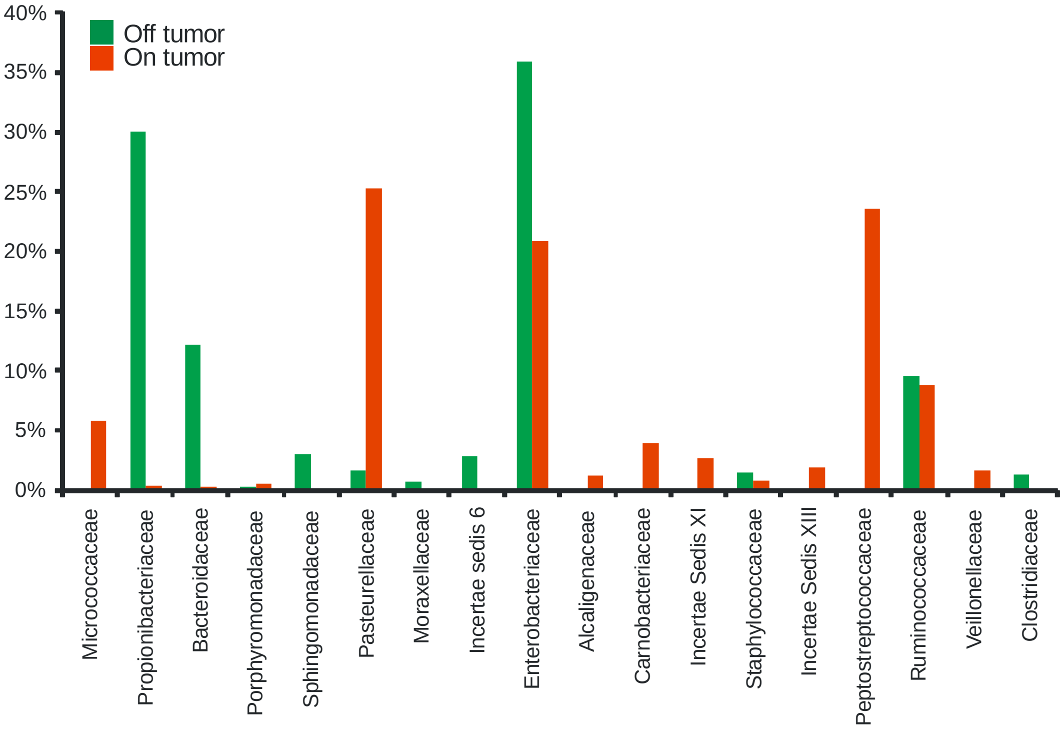
Subject B


Mucosa
Actinobacteria (122)
Bacteroidetes (1,300)
Firmicutes (3,445)
Fusobacteria (0)
Proteobacteria (7,481)
Tumour
Actinobacteria (26)
Bacteroidetes (1,304)
Firmicutes (1,559)
Fusobacteria (16)
Proteobacteria (10,281)

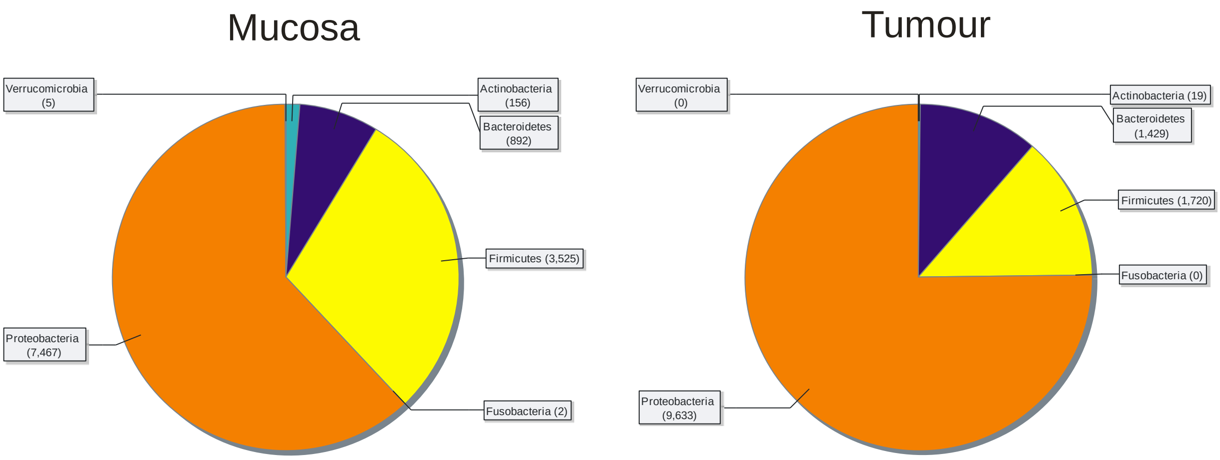

90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Off tumor
On tumor
Micrococcaceae
Bacteroidaceae
Porphyromonadaceae
Pasteurellaceae
Enterobacteriaceae
Incertae Sedis XI
Lachnospiraceae
Incertae Sedis XI
Peptostreptococcaceae
Ruminococcaceae
Veillonellaceae

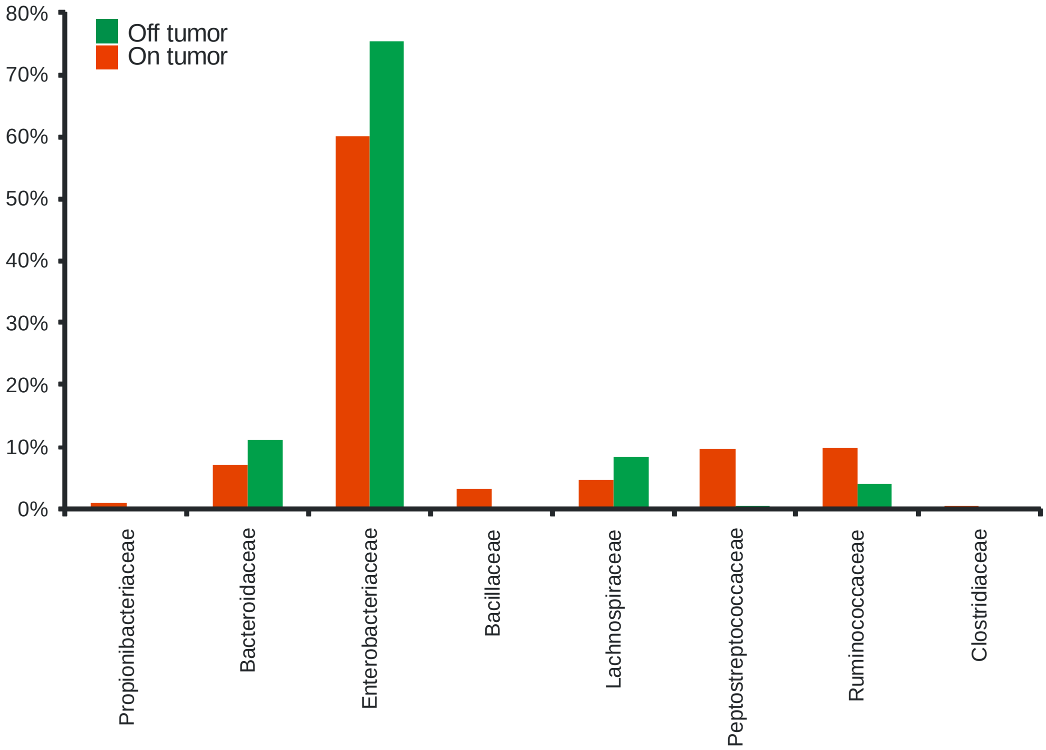
Subject C


Mucosa
Actinobacteria (6,583)
Proteobacteria (8,940)
Bacteroidetes (2,687)
Firmicutes (2,802)
Tumour
Actinobacteria (933)
Bacteroidetes (137)
Proteobacteria (6,710)
Firmicutes (5,601)

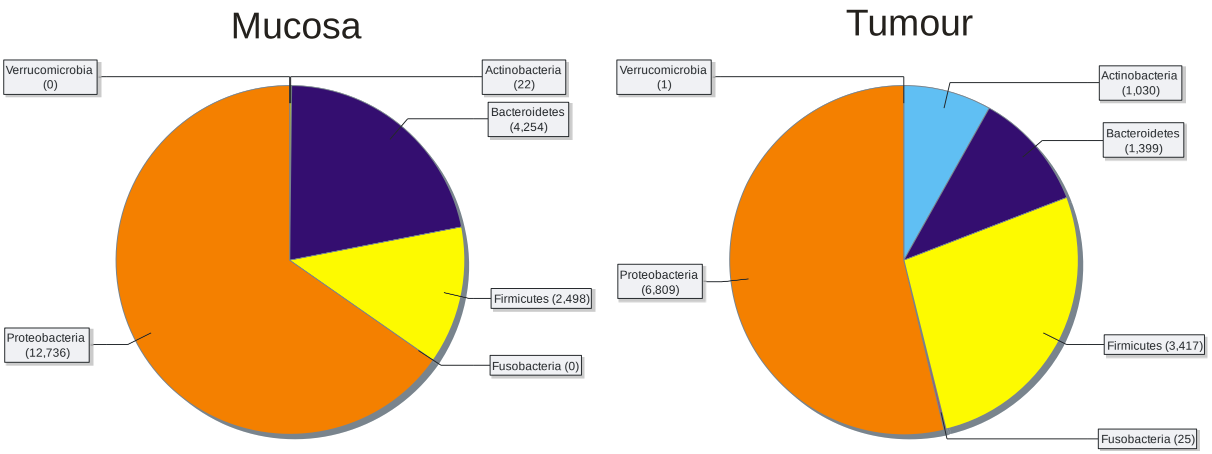

40%
35%
30%
25%
20%
15%
10%
5%
0%
🟩 Off tumor
🟥 On tumor
Micrococcaceae
Propionibacteriaceae
Bacteroidaceae
Porphyromonadaceae
Sphingomonadaceae
Pasteurellaceae
Moraxellaceae
Incertae sedis 6
Enterobacteriaceae
Alcaligenaceae
Carnobacteriaceae
Incertae Sedis XI
Staphylococcaceae
Incertae Sedis XIII
Peptostreptococcaceae
Ruminococcaceae
Veillonellaceae
Clostridiaceae

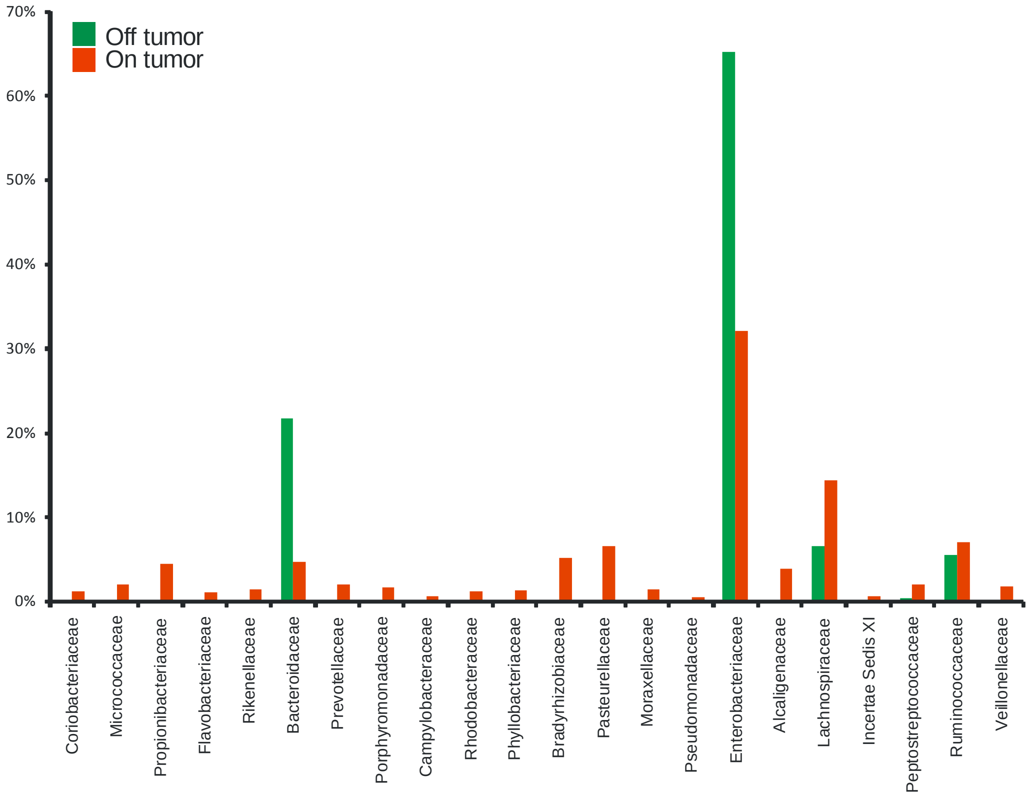
Subject D


Mucosa
Verrucomicrobia (5)
Actinobacteria (156)
Bacteroidetes (892)
Firmicutes (3,525)
Proteobacteria (7,467)
Fusobacteria (2)
Tumour
Verrucomicrobia (0)
Actinobacteria (19)
Bacteroidetes (1,429)
Firmicutes (1,720)
Fusobacteria (0)
Proteobacteria (9,633)

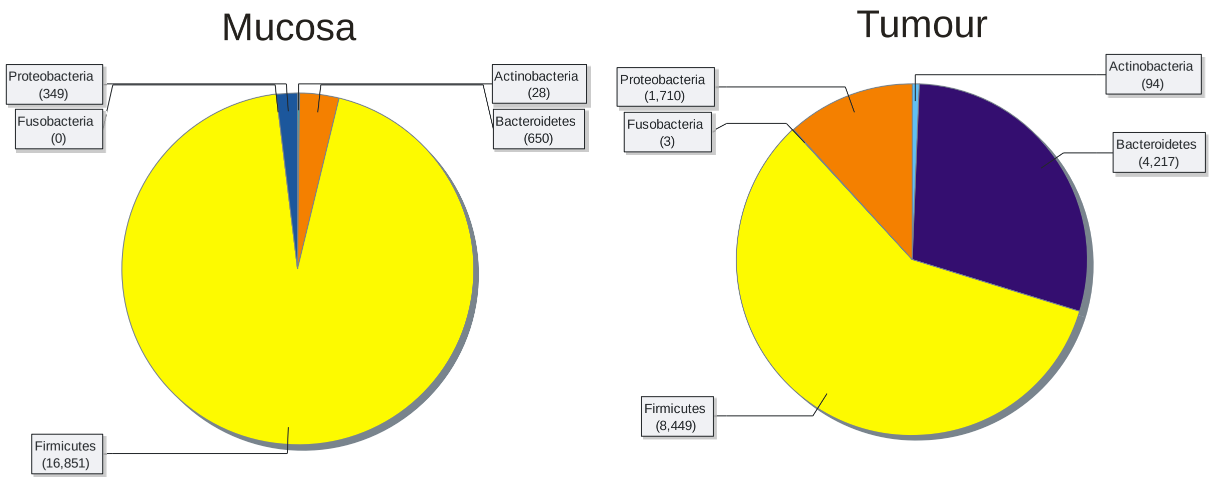

80%
70%
60%
50%
40%
30%
20%
10%
0%
🟩 Off tumor
🟥 On tumor
Propionibacteriaceae
Bacteroidaceae
Enterobacteriaceae
Bacillaceae
Lachnospiraceae
Peptostreptococcaceae
Ruminococcaceae
Clostridiaceae

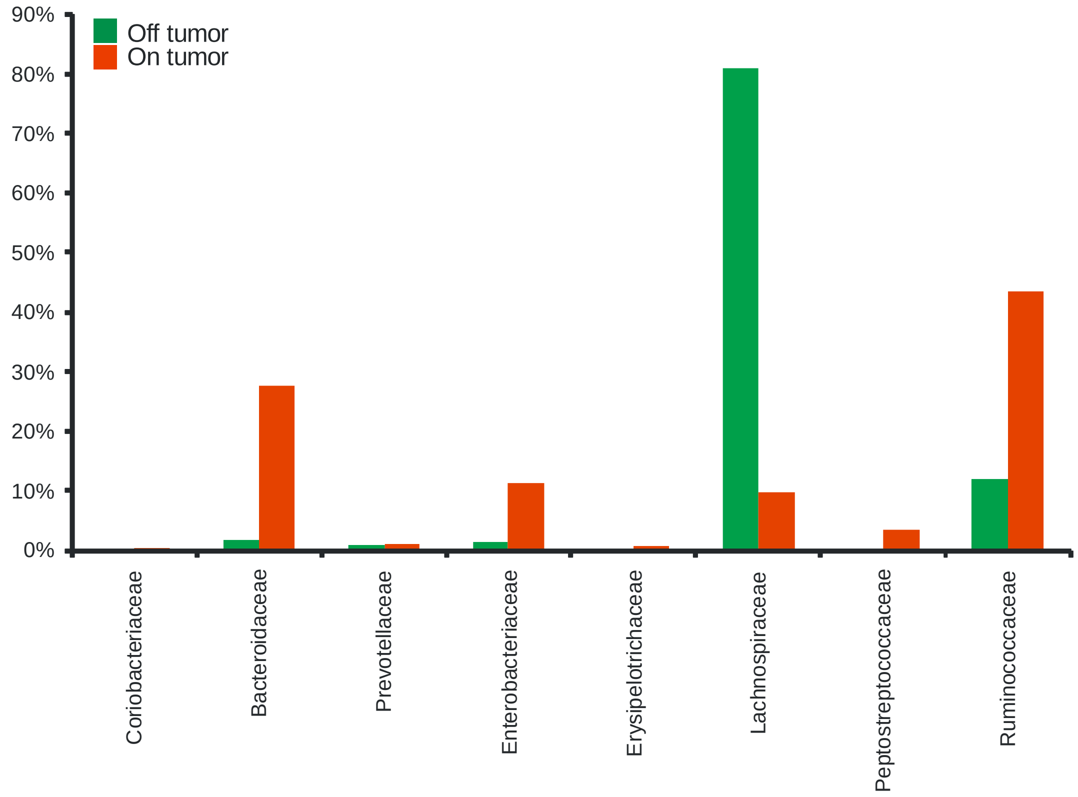
Subject E

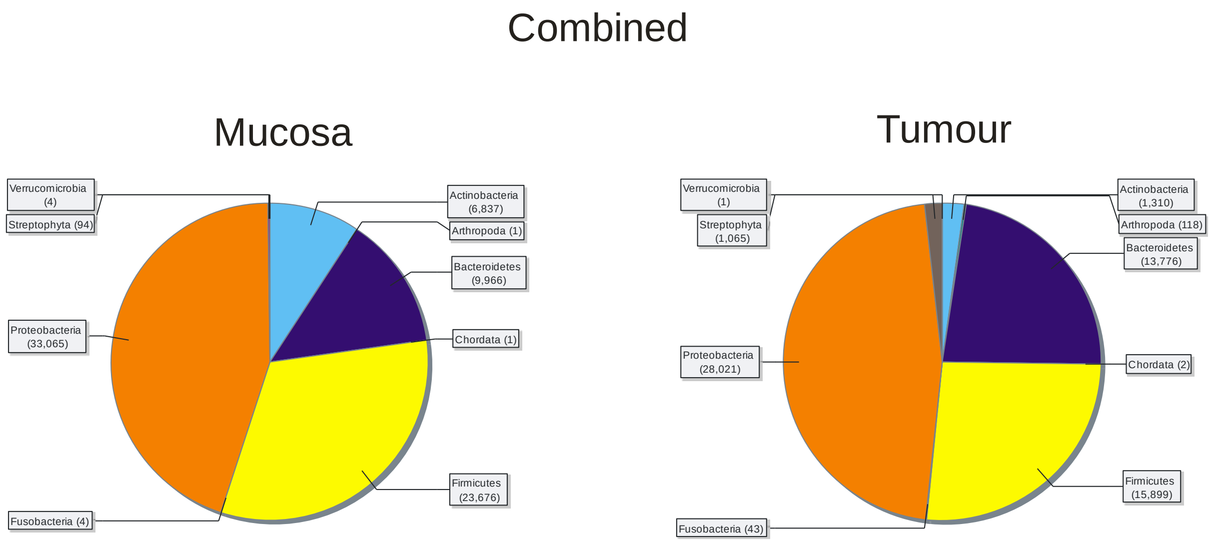

Mucosa
Verrucomicrobia (0)
Actinobacteria (22)
Bacteroidetes (4,254)
Firmicutes (2,498)
Fusobacteria (0)
Proteobacteria (12,736)
Tumour
Verrucomicrobia (1)
Actinobacteria (1,030)
Bacteroidetes (1,399)
Proteobacteria (6,809)
Firmicutes (3,417)
Fusobacteria (25)

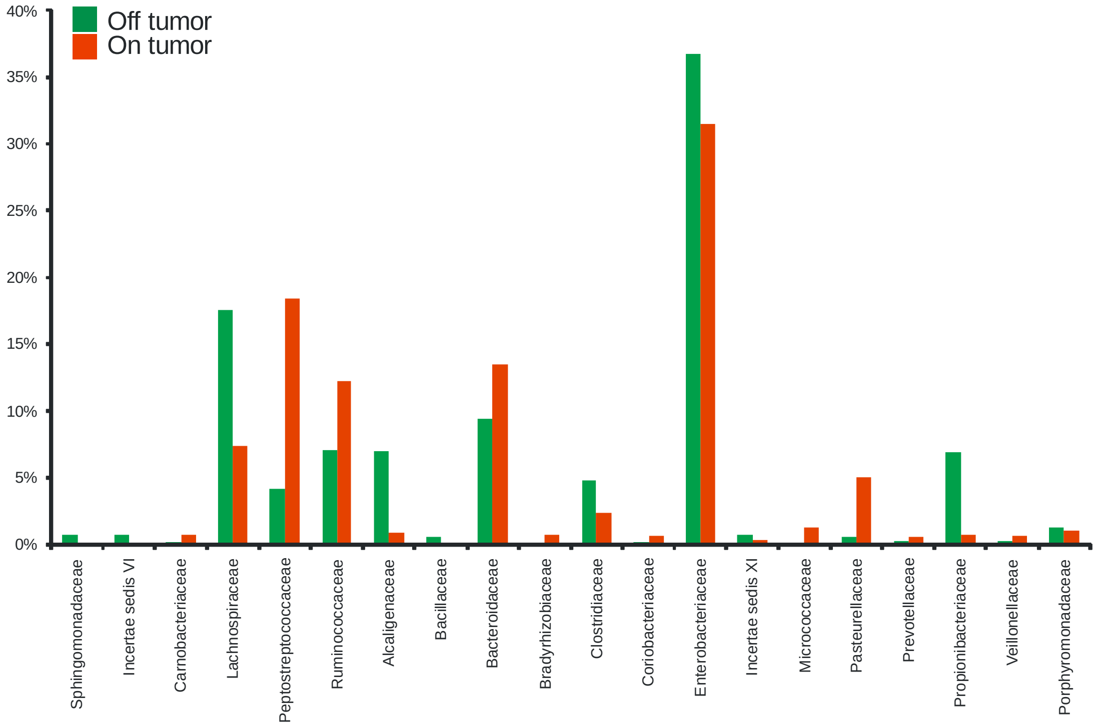

70%
60%
50%
40%
30%
20%
10%
0%
🟩 Off tumor
🟥 On tumor
Coriobacteriaceae
Micrococcaceae
Propionibacteriaceae
Flavobacteriaceae
Rikenellaceae
Bacteroidaceae
Prevotellaceae
Porphyromonadaceae
Campylobacteraceae
Rhodobacteraceae
Phyllobacteriaceae
Bradyrhizobiaceae
Pasteurellaceae
Moraxellaceae
Pseudomonadaceae
Enterobacteriaceae
Alcaligenaceae
Lachnospiraceae
Incertae Sedis XI
Peptostreptococcaceae
Ruminococcaceae
Veillonellaceae

Subject F


Mucosa
Proteobacteria (349)
Fusobacteria (0)
Actinobacteria (28)
Bacteroidetes (650)
Firmicutes (16,851)
Tumour
Proteobacteria (1,710)
Fusobacteria (3)
Actinobacteria (94)
Bacteroidetes (4,217)
Firmicutes (8,449)


90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Off tumor
On tumor
Coriobacteriaceae
Bacteroidaceae
Prevotellaceae
Enterobacteriaceae
Erysipelotrichaceae
Lachnospiraceae
Peptostreptococcaceae
Ruminococcaceae





REFERENCES

1.. Huson DH et al. MEGAN analysis of metagenomic data. Genome Research 2007;17:377-386.
2. Letunic I et al. Interactive Tree Of Life (iTOL): an online tool for phylogenetic tree display and annotation. Bioinformatics 2007;23:127-128.