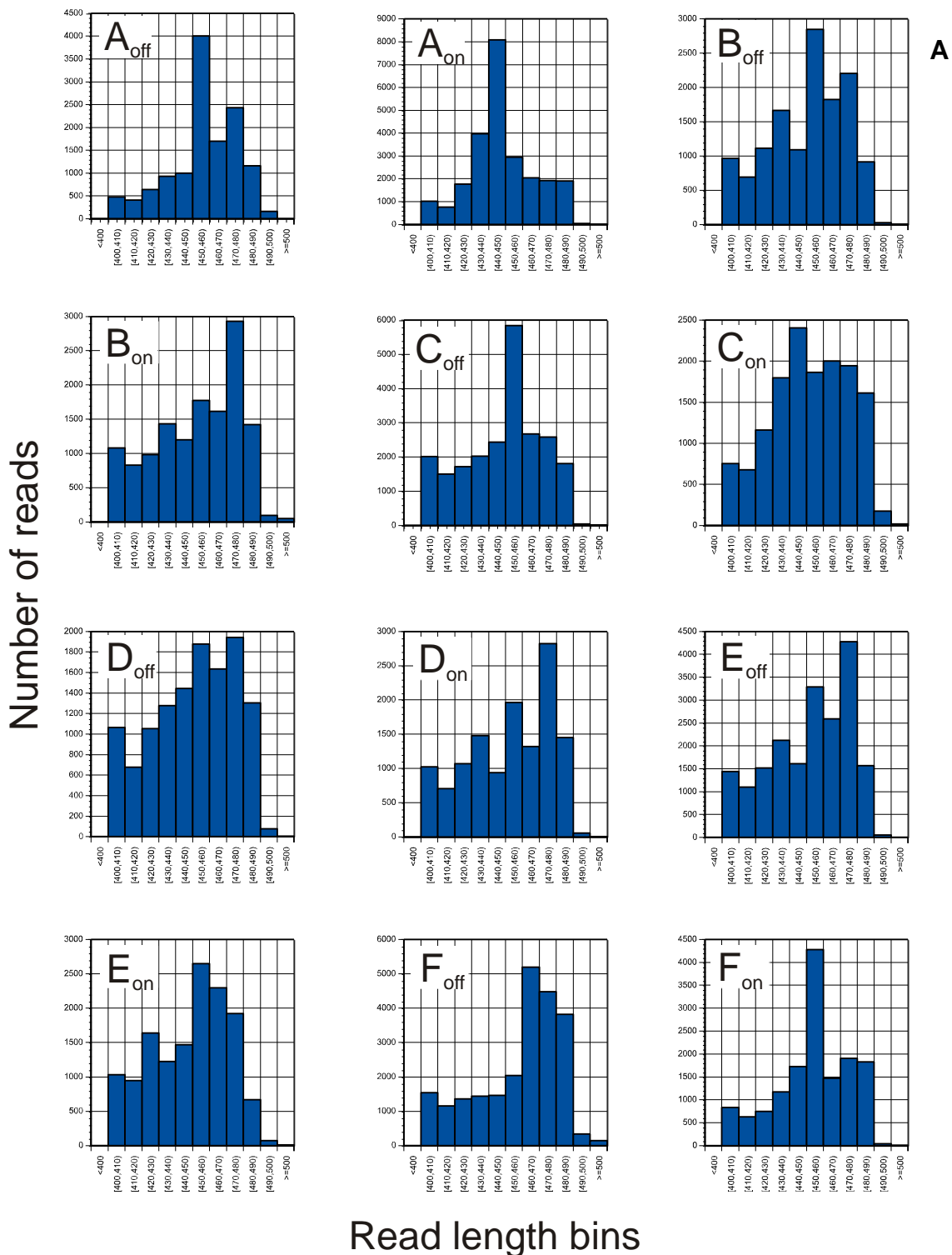
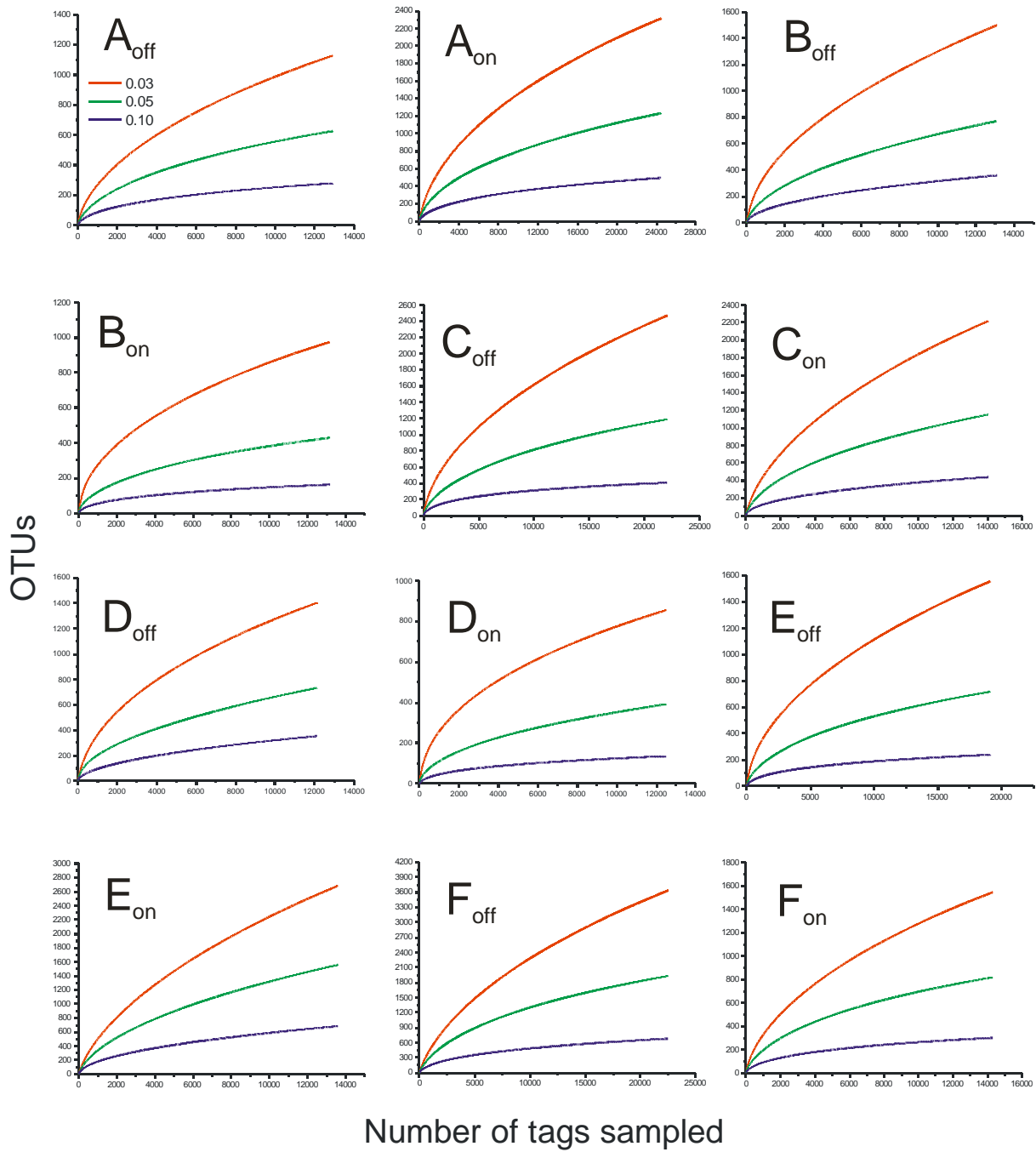


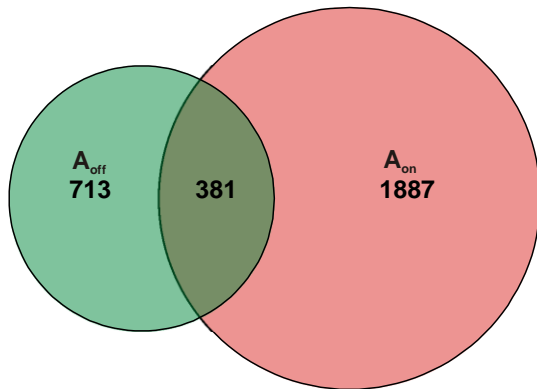
Figure S2. A, Read lengths per sample, with X_{off} and X_{on} coming from off-tumor and on-tumor samples in subject X, the data was derived from the read lengths post-processing via the RDP pyropipeline [1]. **B**, Rarefaction curves for each sample, the sample key is the same as use for Figure S1. These curves were generated using MOTHUR [2,3], cut off values are shown. **C**, Venn diagram for paired samples generated using MOTHUR, each diagram shows the OTUs (at 0.03% cut-off) shared and those unique to each sample from on and off tumor. **D**, Principle component analysis of the annotated 16S rRNA sequence data generated for on and off tumor samples of each patient (A-F), was plotted as an 0.5 x 0.5 interval density distribution. The color coding shows the natural logarithm of the densities in each segment. Where there are significant differences ($P < 0.05$) between tumor tissue and adjacent off-tumor mucosa, a white cross is shown in that segment. The taxonomic groups contributing to the most densely populated segments are shown (and the numbers of sequences contributing are shown in parentheses).



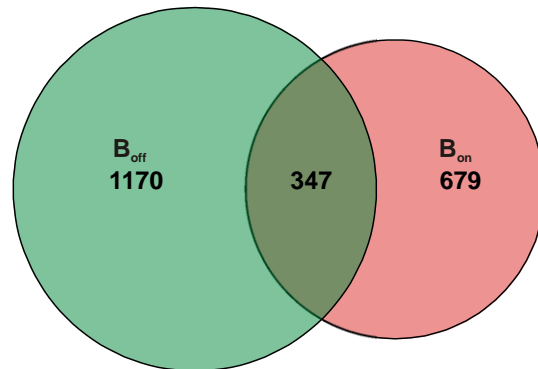
B



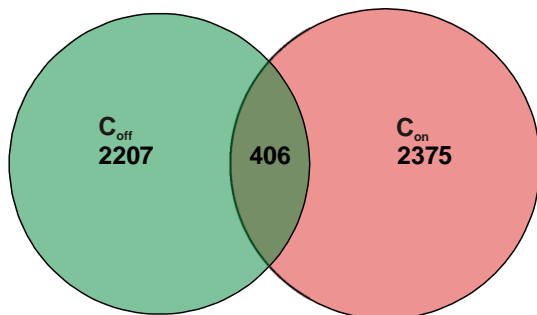
C



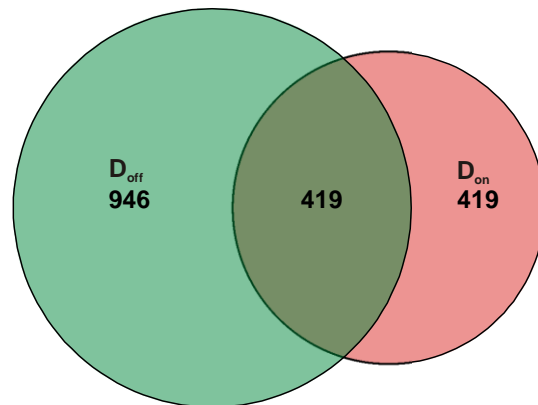
The number of species in group A_{off} is 1094
 The number of species in group A_{on} is 2268
 The number of species shared between groups A_{off} and A_{on} is 381
 % of species that are shared in groups A_{off} and A_{on} is 12%
 The total richness for all groups is 2981



The number of species in group B_{off} is 1517
 The number of species in group B_{on} is 1026
 The number of species shared between groups B_{off} and B_{on} is 347
 % of species that are shared in groups B_{off} and B_{on} is 16%
 The total richness for all groups is 2196



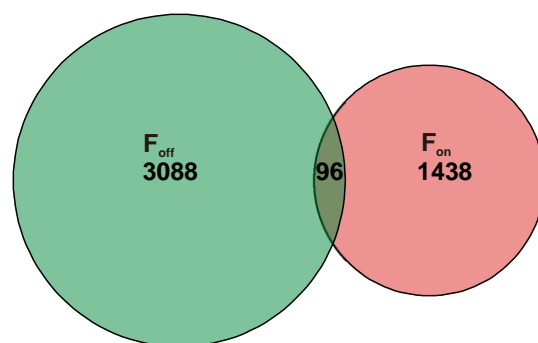
The number of species in group C_{off} is 2613
 The number of species in group C_{on} is 2781
 The number of species shared between groups C_{off} and C_{on} is 406
 % of species that are shared in groups C_{off} and C_{on} is 8%
 The total richness for all groups is 4988



The number of species in group D_{off} is 1439
 The number of species in group D_{on} is 912
 The number of species shared between groups D_{off} and D_{on} is 493
 % of species that are shared in groups D_{off} and D_{on} is 27%
 The total richness for all groups is 1858

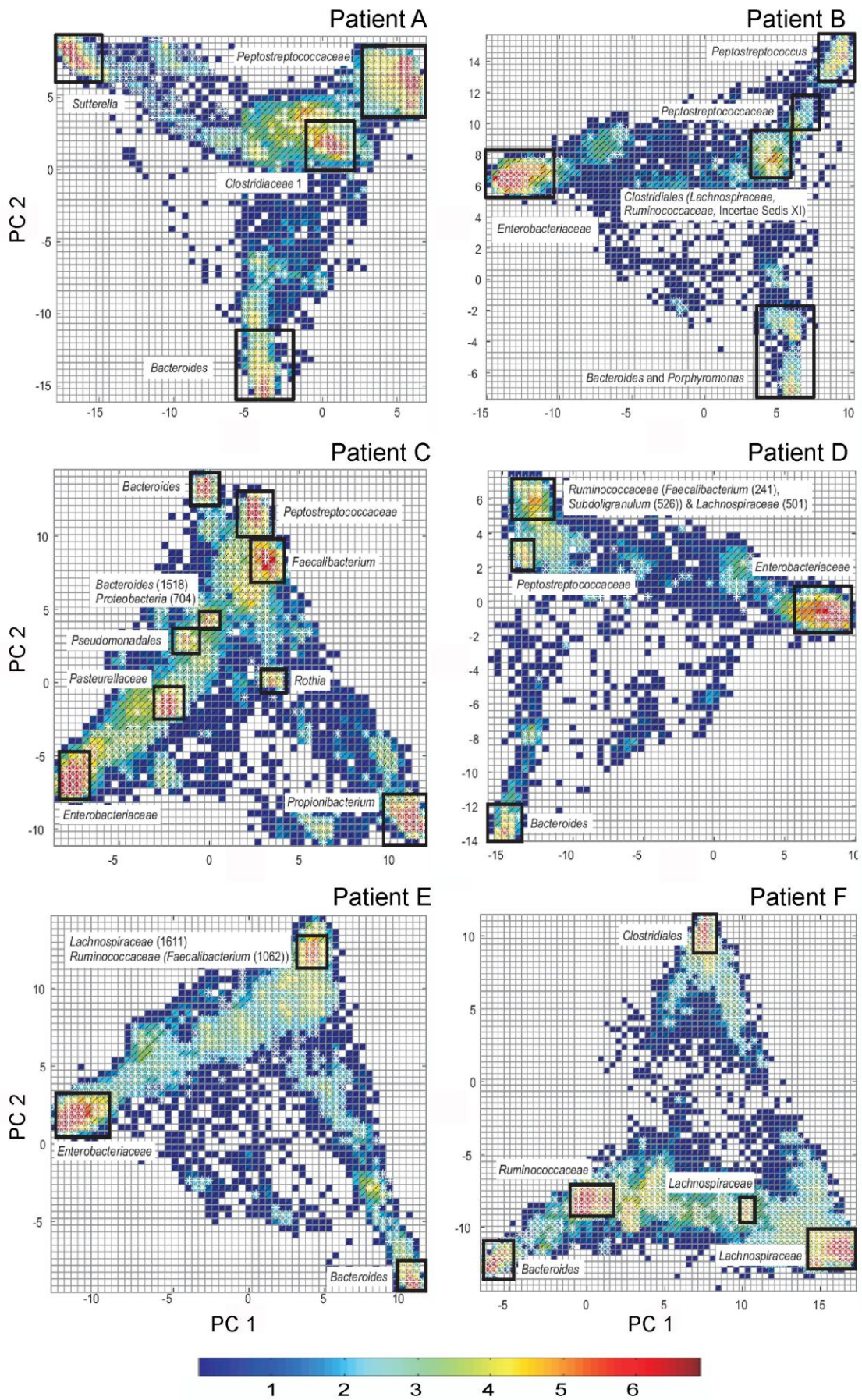


The number of species in group E_{off} is 706
 The number of species in group E_{on} is 2038
 The number of species shared between groups E_{off} and E_{on} is 164
 % of species that are shared in groups E_{off} and E_{on} is 6%
 The total richness for all groups is 2580



The number of species in group F_{off} is 3184
 The number of species in group F_{on} is 1534
 The number of species shared between groups F_{off} and F_{on} is 96
 % of species that are shared in groups F_{off} and F_{on} is 2%
 The total richness for all groups is 4622

D



REFERENCES

- 1 Cole JR et al. The Ribosomal Database Project: improved alignments and new tools for rRNA analysis. *Nucl Acids Res* 2009;37:D141-145.
- 2 Schloss PD et al. Introducing mothur: Open Source, Platform-independent, Community-supported Software for Describing and Comparing Microbial Communities. *Appl Environ Microbiol* 2009: AEM.01541-09.
- 3 Huson DH et al. Methods for comparative metagenomics. *BMC Bioinformatics* 2009;10 Suppl 1:S12.