

Supplement: Analysis of the fecal and oral microbiota in chronic recurrent multifocal osteomyelitis

Philipp Rausch^{1,2}, Meike Hartmann³, John F. Baines^{4,5,*}, Philipp von Bismarck^{3,*}

¹ Institute for Clinical Molecular Biology (IKMB), Christian-Albrechts-University of Kiel, Kiel, Germany

² Laboratory of Genomics and Molecular Biomedicine, Department of Biology, University of Copenhagen, Denmark

³ Clinic for general pediatrics, Christian-Albrechts-University of Kiel, Kiel, Germany

⁴ Max Planck Institute for Evolutionary Biology, Plön, Germany

⁵ Institute for Experimental Medicine, Christian-Albrechts-University of Kiel, Kiel, Germany

* Corresponding authors: John F. Baines (baines@evolbio.mpg.de), Philipp von Bismarck (philipp.vonbismarck@uksh.de)

Supplemental methods:

DNA extraction and 16S rRNA gene sequencing: DNA was extracted from saliva and stool samples (stored at -20°C in stabilizing solution) using the PSP Saliva Gene DNA Kit and PSP Spin Stool DNA Kit respectively following the manufacturer's protocol (STRATEC Molecular GmbH, Germany). The 16S rRNA gene was amplified using uniquely barcoded primers flanking the V1 and V2 hypervariable regions (27F-338R) with fused MiSeq adapters in a 25 µl PCR. We used 4 µl of each forward and reverse primer (0.28 µM), 0.5 µl dNTPs (200 µM each), 0.25 µl Phusion Hot Start II High-Fidelity DNA Polymerase (0.5 Us), 5 µl of HF buffer (Thermo Fisher Scientific, Inc., Waltham, MA, USA) and 1 µl of undiluted DNA or cDNA. PCRs were conducted with the following cycling conditions (98°C-30s, 30×[98°C-9s, 55°C-60s, 72°C-90s], 72°C-10 min) and checked on a 1.5 % agarose gel. The concentration of the amplicons was estimated using a Gel Doc™ XR+ System coupled with Image Lab™ Software (BioRad, Hercules, CA USA) with 3 µl of O'GeneRuler™ 100 bp Plus DNA Ladder (Thermo Fisher Scientific, Inc., Waltham, MA, USA) as the internal standard for band intensity measurement. The samples of individual gels were pooled into approximately equimolar sub pools as indicated by band intensity and measured with the Qubit dsDNA Br Assay Kit (Life Technologies GmbH, Darmstadt, Germany). Sub pools were mixed in an equimolar fashion and stored at -20°C until sequencing. Sequencing was performed on the Illumina MiSeq platform with v3 chemistry.

Sequence processing and quality control: Raw BCL files were demultiplexed and transformed to FASTQ via *bcl2fastq* v2.18.0.12 using both forward and reverse barcodes allowing no mismatch in the barcode region. Sequence pairs were filtered and merged via *USEARCH* v8.0.1623 (quality threshold for truncation: 10, minimum length single: 200; minimum length after merge: 300; maximum length after merge: 350; minimum overlap: 100; maximum differences in overlap: 1) [1]. Quality filtering was done using the *FASTX tool* v0.0.13 with a minimum quality score of 30/33 in at least 99% of the sequence [2]. A second round of quality filtering was performed via *USEARCH* (-fastq_maxee 0.1). Chimeric sequences were determined using *USEARCH* (database informed *UCHIME* algorithm and

the rdp core and gold databases) [1, 3]. Sequences were classified and confirmed as bacterial using the RDP classifier with $\geq 80\%$ bootstrap threshold (1000 iterations) using the RDP16 database version as provided by P. Schloss in *mothur* 1.39.5 [4, 5]. For all downstream analyses of diversity and habitat association, we took a random subset of 13641 sequences per sample to normalize the read distribution. OTU binning was performed by using the *mothur optclust* algorithm with single sequences as starting points for clustering and optimizing following the Matthews correlation coefficient [6].

Supplemental figures:

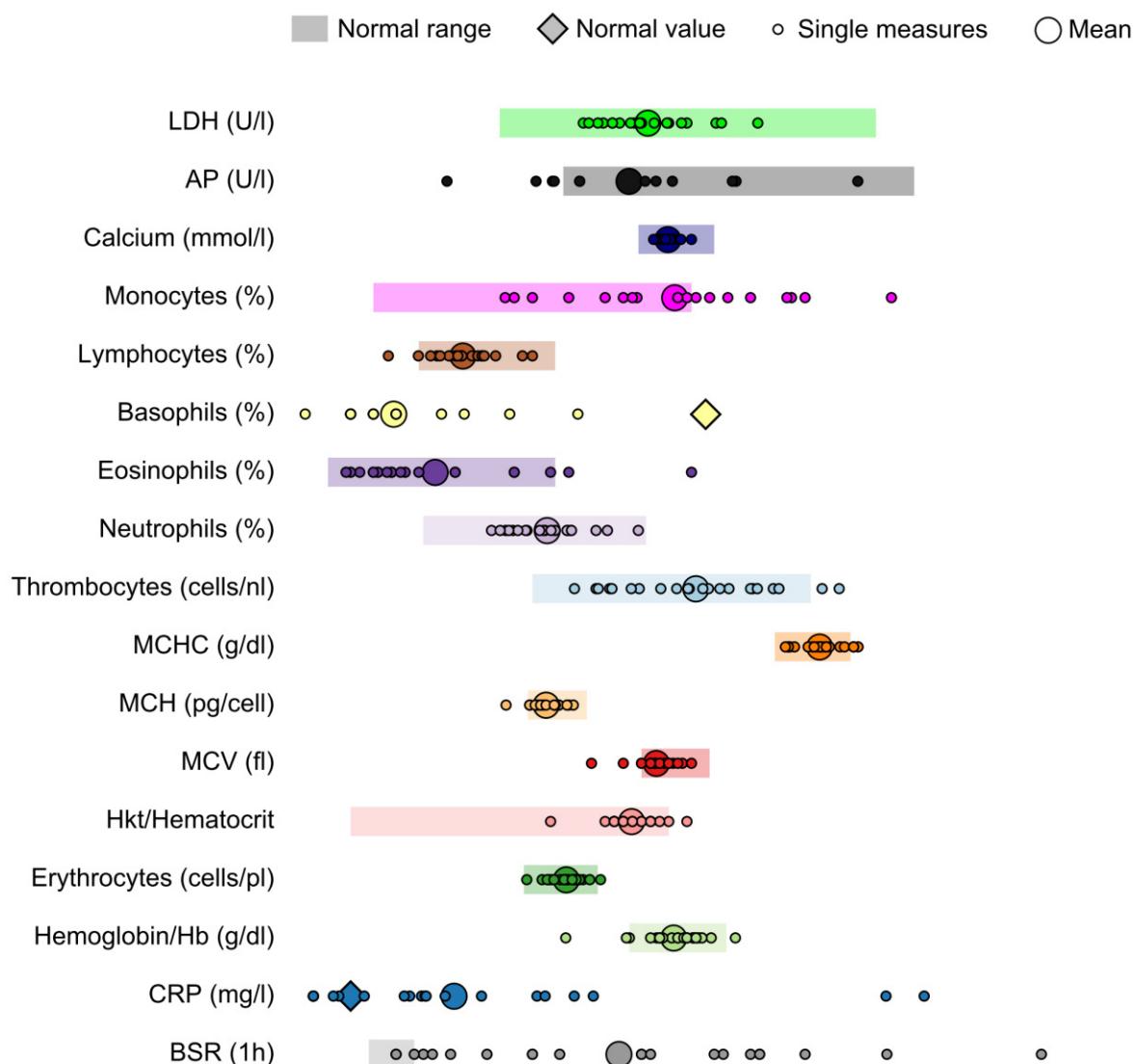


Figure S1: Single data points display scaled values of the respective clinical measurements, while large symbols marking the mean. The transparent bars or diamond symbols show the normal reference ranges/values of the respective clinical parameters (see Table 1). Normal physiological ranges/values of the respective clinical measures are based on the UKSH Clinical Chemistry Department or Oster 2015 [7].

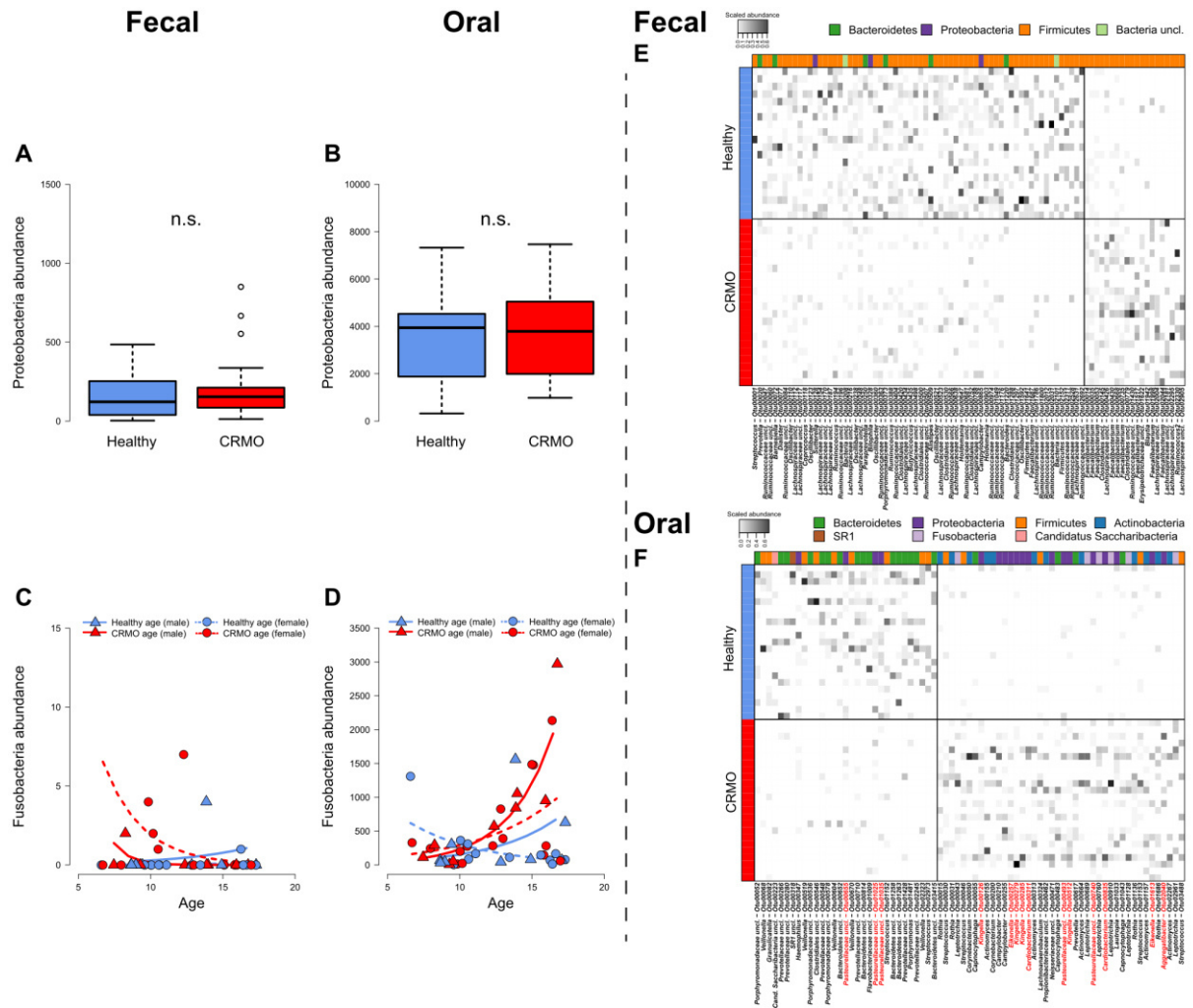


Figure S2: Abundance differences of low abundant phyla in the fecal (**A**, **C**) and oral microbiome (**B**, **D**). Shown are the results according to the best statistical model (see Table 2; n.s. $P > 0.05$). Heatmaps show the distribution of indicator OTUs (min. >1 occurrence) significantly associated to CRMO patients or healthy control individuals based on indicator species analysis [8, 9] of fecal (**E**) and oral (**F**) microbial communities (Table S1). Red taxon names highlight potential HACEK members.

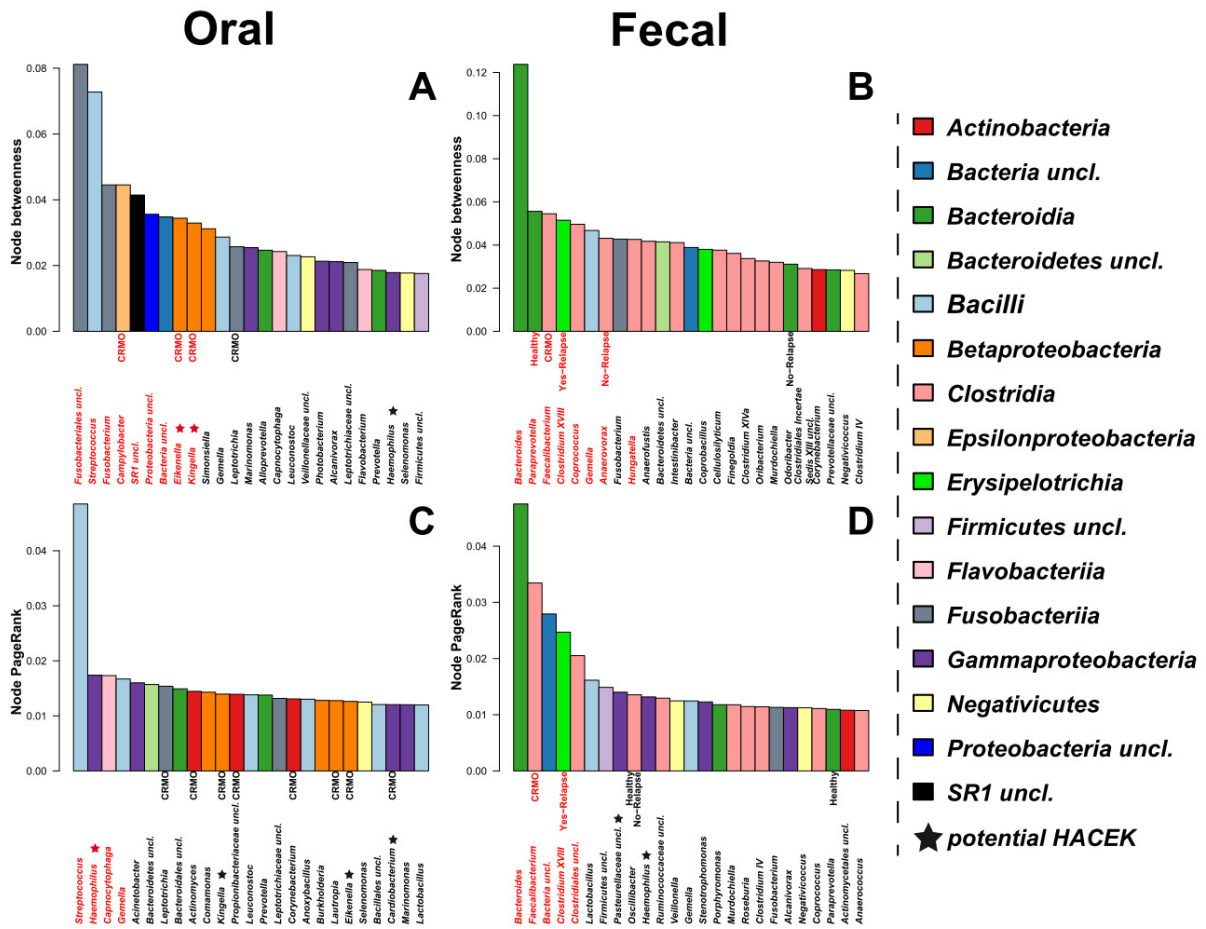


Figure S3: Barplots show the top 30 most central bacteria in oral (A, C) and fecal (B, D) bacterial consensus genus networks (node betweenness: A, B; PageRank: C, D; see Table S3). Bar colors indicate bacterial classification at the class level. Names highlighted in red indicate higher than average centrality values according to network permutation tests. Additionally, significant indicator species associations are added above the names and potential HACEK membership (★) is indicated next to genus names.

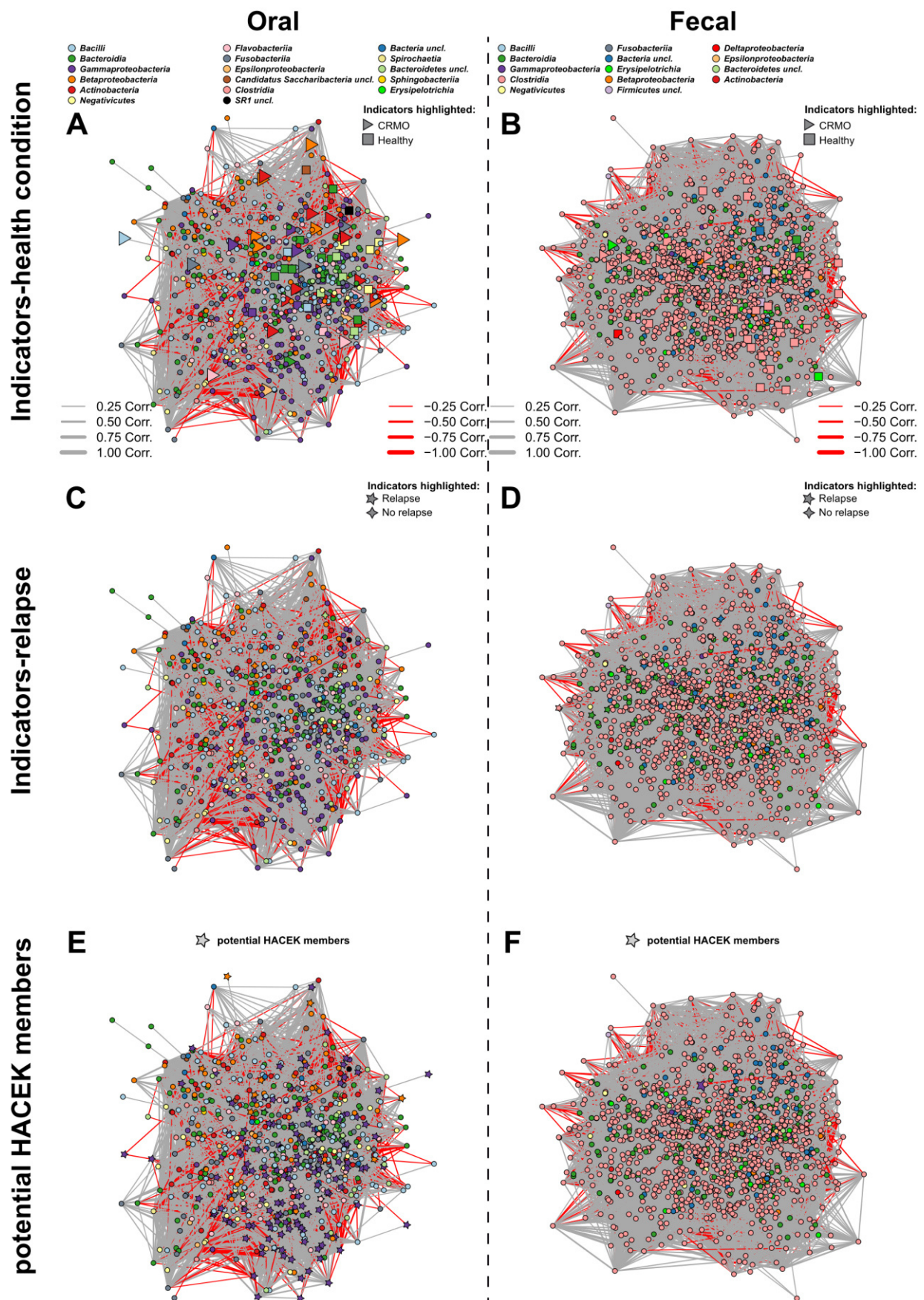


Figure S4: Co-abundance networks of oral (**A**, **C**, **E**) and fecal OTUs (**B**, **D**, **F**) based on SparCC correlation [10]. Vertex colors show class level taxonomy and edge width and color shows the strength and direction of bacterial correlations. Vertex shapes highlight indicator species [8, 9] for healthy or CRMO associated OTUs (■-healthy, ▲-CRMO; **A** & **B**), or bacteria associated to disease relapse (★-Relapse, ◆-No relapse: **C** & **D**). Networks **E** and **F** show the positions of OTUs potentially belonging to the HACEK group in the oral and fecal co-abundance networks (★-HACEK).

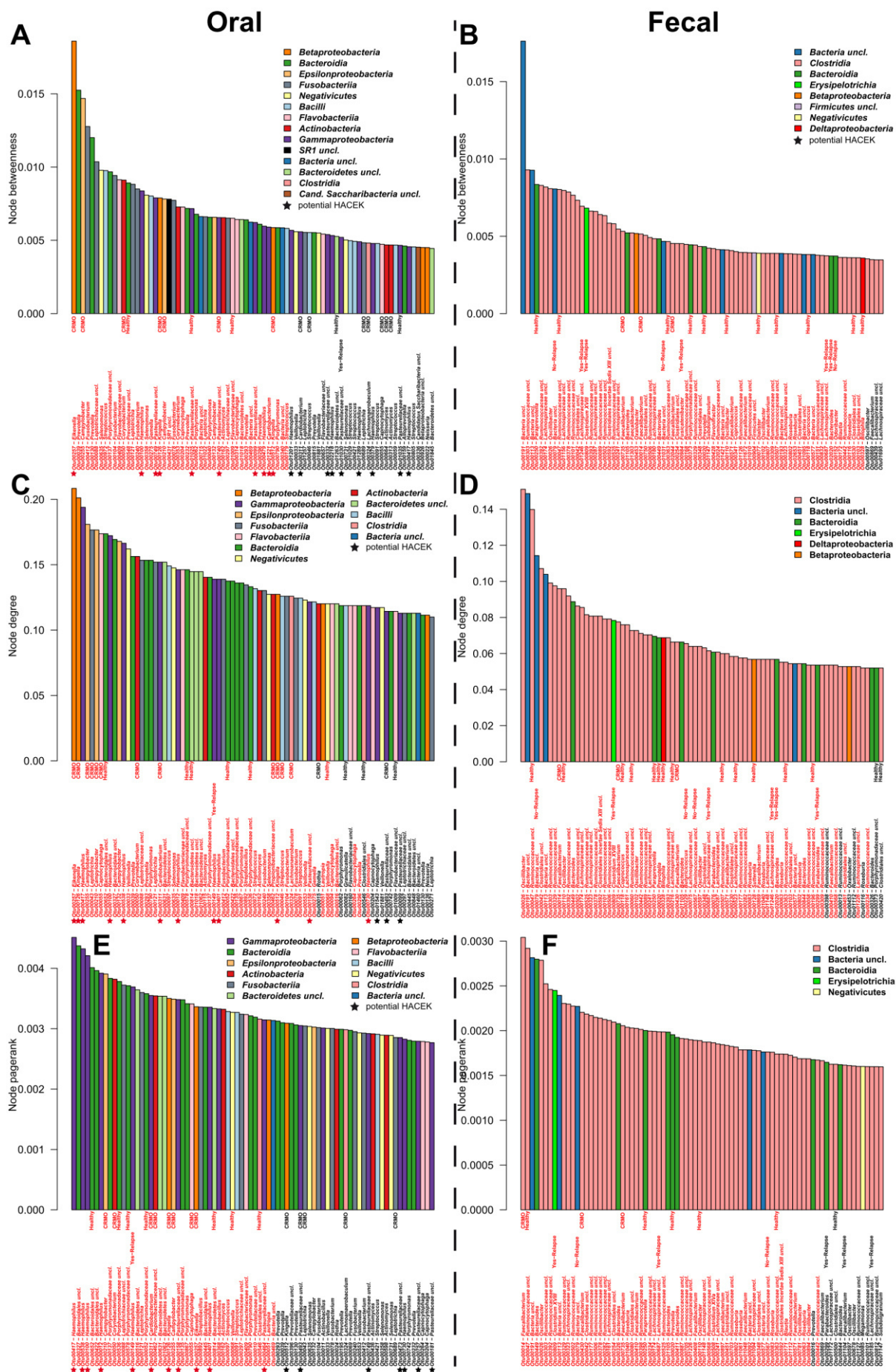


Figure S5: Barplots show the top 80 most central bacteria in oral (**A**, **C**, **E**) and fecal (**B**, **D**, **F**) bacterial OTU networks (betweenness: **A**, **B**; node degree: **C**, **D**; PageRank: **E**, **F**; see Table S4). Bar colors indicate bacterial classification at the class level. Names highlighted in red indicate higher than average centrality values according to network permutation tests (Table S4). Additionally, significant indicator species associations are added above the names and potential HACEK membership (★) is indicated next to genus names.

Supplemental tables:

Table S1: Indicator species level OTUs associated to healthy and CRMO fecal and oral communities (potential HACEK-group members are highlighted in **bold** face).

Table S2: Top twenty five most important bacterial genera and species level OTUs of fecal and oral microbial communities separating healthy and CRMO individuals using supervised classification via RandomForest (potential HACEK-group members are highlighted in **bold** face).

Table S3: Significant taxon centralities in the consensus genus networks of fecal and oral communities based on network permutation (10'000 permutations, one-sided Z test). Potential members of the HACEK-group members are highlighted in **bold** face and taxa in red mark repeated detections.

Table S4: Significant taxon centralities in the species level OTU networks of fecal and oral communities based on network permutation (10'000 permutations, one-sided Z test). Potential members of the HACEK-group members are highlighted in **bold** face and taxa in red mark repeated detections.

Table S5: Consensus genera associated to clinical measurements CRMO fecal and oral communities via Euclidean distance correlation and Spearman rank correlation (SCC-Spearman correlation coefficient). Potential HACEK-group members are highlighted in **bold** face and red highlights taxa with multiple associations. The *P*-value cutoff was set to $P \leq 0.010$.

Table S6: Species level OTUs from CRMO fecal communities associated to clinical measurements via Euclidean distance correlation and Spearman rank correlation (SCC-Spearman correlation coefficient). Indicators for healthy individuals are marked with +; # indicators for CRMO; ‡ indicators for relapse; † indicators for no relapse. HACEK-group members are highlighted in **bold** face and red indicates OTUs with multiple associations. The *P*-value cutoff was set to $P \leq 0.010$.

Table S7: Species level OTUs from CRMO oral communities associated to clinical measurements via Euclidean distance correlation and Spearman rank correlation (SCC-Spearman correlation coefficient). Indicators for healthy individuals are marked with +; # indicators for CRMO; ‡ indicators for relapse; † indicators for no relapse. HACEK-group members are highlighted in **bold** face and red indicates OTUs with multiple associations. The *P*-value cutoff was set to $P \leq 0.010$.

Table S8: Association of alpha diversity measures (ACE species richness, Shannon H numbers equivalent) in the fecal and oral microbial communities with the clinical measurements in CRMO patients. Lines highlighted in red show nominally significant Euclidean distance correlations.

Table S9: Association of beta diversity measures of fecal and oral microbial communities with clinical measurements in CRMO patients via PERMANOVA. Red highlights nominally significant associations between beta diversity and clinical measurements.

Supplemental references:

1. Edgar RC: **Search and clustering orders of magnitude faster than BLAST.** *Bioinformatics* 2010, **26**(19):2460-2461.
2. Hannon G: **FASTX-Toolkit.** In. http://hannonlab.cshl.edu/fastx_toolkit; 2010.
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6. Westcott SL, Schloss PD: **OptiClust, an Improved Method for Assigning Amplicon-Based Sequence Data to Operational Taxonomic Units.** *mSphere* 2017, **2**(2).
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8. De Cáceres M, Legendre P, Moretti M: **Improving indicator species analysis by combining groups of sites.** *Oikos* 2010, **119**(10):1674-1684.
9. De Cáceres M, Legendre P, Wiser SK, Brotons L: **Using species combinations in indicator value analyses.** *Methods in Ecology and Evolution* 2012:n/a-n/a.
10. Friedman J, Alm EJ: **Inferring Correlation Networks from Genomic Survey Data.** *PLoS Computational Biology* 2012, **8**(9):e1002687.

Table S1: Indicator species level OTUs associated to healthy and CRMO fecal and oral communities (potential HACEK-group members are highlighted in **bold face**).

Data	Factor	Assoc.	OTU-ID	IndVal.g	P-Value	P _{FDR}	Phylum (RDP16)	Genus (RDP16)
Fecal	Disease	CRMO	OTU-2905	0.47673	0.04770	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2330	0.47673	0.04780	0.70522	Firmicutes	<i>Ruminococcus2</i>
			OTU-2295	0.47673	0.04940	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2181	0.47673	0.04980	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2044	0.53247	0.04350	0.70522	Firmicutes	<i>Faecalibacterium</i>
			OTU-2004	0.56408	0.00920	0.47221	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-1998	0.52438	0.04480	0.70522	Firmicutes	<i>Faecalibacterium</i>
			OTU-1942	0.53540	0.04170	0.70522	Firmicutes	<i>Blautia</i>
			OTU-1622	0.51854	0.04250	0.70522	Firmicutes	<i>Erysipelotrichaceae uncl.</i>
			OTU-1517	0.54447	0.02100	0.61333	Firmicutes	<i>Faecalibacterium</i>
			OTU-1430	0.47673	0.04910	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
			OTU-779	0.63175	0.00410	0.47221	Firmicutes	<i>Clostridiales uncl.</i>
			OTU-735	0.75194	0.00600	0.47221	Firmicutes	<i>Faecalibacterium</i>
			OTU-668	0.73713	0.02150	0.61367	Firmicutes	<i>Faecalibacterium</i>
			OTU-430	0.80670	0.00510	0.47221	Firmicutes	<i>Faecalibacterium</i>
			OTU-426	0.72125	0.00830	0.47221	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-145	0.61309	0.03280	0.70522	Firmicutes	<i>Clostridiales uncl.</i>
			OTU-53	0.79759	0.03690	0.70522	Firmicutes	<i>Faecalibacterium</i>
			OTU-35	0.87268	0.00750	0.47221	Firmicutes	<i>Faecalibacterium</i>
			OTU-14	0.81137	0.01410	0.59026	Firmicutes	<i>Faecalibacterium</i>
	Healthy	Healthy	OTU-2101	0.51903	0.02900	0.70039	Bacteria uncl.	<i>Bacteria uncl.</i>
			OTU-208	0.75319	0.04440	0.70522	Bacteria uncl.	<i>Bacteria uncl.</i>
			OTU-1220	0.52440	0.03120	0.70522	Bacteroidetes	<i>Bacteroides</i>
			OTU-509	0.49800	0.03120	0.70522	Bacteroidetes	<i>Alistipes</i>
			OTU-373	0.58073	0.04930	0.70522	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>
			OTU-250	0.56003	0.03610	0.70522	Bacteroidetes	<i>Paraprevotella</i>
			OTU-72	0.71150	0.02900	0.70039	Bacteroidetes	<i>Barnesiella</i>
			OTU-20	0.70410	0.00940	0.47221	Bacteroidetes	<i>Prevotella</i>
			OTU-2692	0.50000	0.01810	0.59252	Firmicutes	<i>Ruminococcaceae uncl.</i>
			OTU-2631	0.54772	0.00640	0.47221	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2528	0.51042	0.04100	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
			OTU-2311	0.54772	0.00800	0.47221	Firmicutes	<i>Ruminococcaceae uncl.</i>

OTU-2152	0.50000	0.01840	0.59252	Firmicutes	<i>Firmicutes uncl.</i>
OTU-2031	0.50000	0.01790	0.59252	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-2012	0.52199	0.03790	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-1800	0.50000	0.01750	0.59252	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-1786	0.54420	0.04040	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-1687	0.58589	0.02400	0.66343	Firmicutes	<i>Faecalibacterium</i>
OTU-1641	0.54772	0.00740	0.47221	Firmicutes	<i>Firmicutes uncl.</i>
OTU-1592	0.50000	0.01750	0.59252	Firmicutes	<i>Oscillibacter</i>
OTU-1297	0.63246	0.00130	0.43956	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-1288	0.50000	0.01750	0.59252	Firmicutes	<i>Clostridiales uncl.</i>
OTU-1176	0.64495	0.01150	0.53491	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-1049	0.57792	0.04390	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-974	0.68361	0.00090	0.43956	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-903	0.61266	0.01930	0.59731	Firmicutes	<i>Holdemania</i>
OTU-788	0.70628	0.00710	0.47221	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-752	0.66675	0.03610	0.70522	Firmicutes	<i>Clostridiales uncl.</i>
OTU-681	0.76222	0.00140	0.43956	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-647	0.64254	0.04610	0.70522	Firmicutes	<i>Holdemania</i>
OTU-638	0.52309	0.02530	0.67242	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-566	0.69052	0.00650	0.47221	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-530	0.70808	0.03190	0.70522	Firmicutes	<i>Clostridiales uncl.</i>
OTU-523	0.71331	0.01390	0.59026	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-521	0.52660	0.04220	0.70522	Firmicutes	<i>Oscillibacter</i>
OTU-507	0.71430	0.00910	0.47221	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-500	0.68821	0.04470	0.70522	Firmicutes	<i>Clostridiales uncl.</i>
OTU-498	0.66879	0.02030	0.60701	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-435	0.75484	0.04170	0.70522	Firmicutes	<i>Butyricicoccus</i>
OTU-434	0.69549	0.04110	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-420	0.77117	0.01070	0.51684	Firmicutes	<i>Clostridiales uncl.</i>
OTU-404	0.77787	0.04750	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-388	0.72439	0.01760	0.59252	Firmicutes	<i>Ruminococcus</i>
OTU-363	0.73030	0.04630	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
OTU-360	0.77405	0.00350	0.47221	Firmicutes	<i>Oscillibacter</i>
OTU-248	0.77527	0.04480	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-238	0.81911	0.00560	0.47221	Firmicutes	<i>Oscillibacter</i>
OTU-216	0.79316	0.03280	0.70522	Firmicutes	<i>Lachnospiraceae uncl.</i>
OTU-196	0.87250	0.00550	0.47221	Firmicutes	<i>Ruminococcaceae uncl.</i>

		OTU-194	0.64124	0.04710	0.70522	Firmicutes	<i>Ruminococcus</i>
		OTU-187	0.58992	0.01630	0.59252	Firmicutes	<i>Lachnospiraceae uncl.</i>
		OTU-170	0.92267	0.00010	0.12559	Firmicutes	<i>Lachnospiraceae uncl.</i>
		OTU-154	0.73470	0.02570	0.67242	Firmicutes	<i>Lachnospiraceae uncl.</i>
		OTU-123	0.86042	0.00610	0.47221	Firmicutes	<i>Oscillibacter</i>
		OTU-118	0.77091	0.01360	0.59026	Firmicutes	<i>Coprococcus</i>
		OTU-117	0.86431	0.01950	0.59731	Firmicutes	<i>Lachnospiraceae uncl.</i>
		OTU-112	0.79867	0.02820	0.70039	Firmicutes	<i>Lachnospiraceae uncl.</i>
		OTU-110	0.84912	0.00510	0.47221	Firmicutes	<i>Oscillibacter</i>
		OTU-84	0.87070	0.00850	0.47221	Firmicutes	<i>Ruminococcaceae uncl.</i>
		OTU-77	0.63222	0.00270	0.47221	Firmicutes	<i>Dialister</i>
		OTU-60	0.80459	0.00750	0.47221	Firmicutes	<i>Ruminococcaceae uncl.</i>
		OTU-47	0.78310	0.04760	0.70522	Firmicutes	<i>Ruminococcaceae uncl.</i>
		OTU-1	0.69544	0.02670	0.68432	Firmicutes	<i>Streptococcus</i>
		OTU-865	0.55131	0.03880	0.70522	Proteobacteria	<i>Campylobacter</i>
		OTU-328	0.76051	0.02430	0.66343	Proteobacteria	<i>Bilophila</i>
		OTU-128	0.60103	0.01790	0.59252	Proteobacteria	<i>Sutterella</i>
Relapse	No	OTU-1031	0.72166	0.03490	1.00000	Bacteria uncl.	<i>Bacteria uncl.</i>
	No	OTU-79	0.79453	0.02950	1.00000	Bacteria uncl.	<i>Bacteria uncl.</i>
		OTU-152	0.87438	0.02520	1.00000	Bacteroidetes	<i>Odoribacter</i>
		OTU-2032	0.65465	0.04810	1.00000	Firmicutes	<i>Faecalibacterium</i>
		OTU-1373	0.70711	0.04500	1.00000	Firmicutes	<i>Faecalibacterium</i>
		OTU-879	0.77033	0.04360	1.00000	Firmicutes	<i>Anaerovorax</i>
		OTU-700	0.70711	0.03520	1.00000	Firmicutes	<i>Oscillibacter</i>
		OTU-697	0.80178	0.01060	1.00000	Firmicutes	<i>Ruminococcaceae uncl.</i>
		OTU-640	0.75272	0.04350	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
		OTU-567	0.80178	0.01280	1.00000	Firmicutes	<i>Ruminococcaceae uncl.</i>
		OTU-229	0.86593	0.03160	1.00000	Firmicutes	<i>Butyricicoccus</i>
Relapse	Yes	OTU-2809	0.61237	0.03670	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-2615	0.61237	0.03770	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-2079	0.66986	0.02920	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-2020	0.76015	0.00820	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-1419	0.61237	0.03600	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-299	0.86267	0.03520	1.00000	Bacteroidetes	<i>Parabacteroides</i>
	Yes	OTU-141	0.70183	0.04420	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-32	0.89409	0.02480	1.00000	Bacteroidetes	<i>Bacteroides</i>
	Yes	OTU-5647	0.61237	0.04070	1.00000	Firmicutes	<i>Ruminococcaceae uncl.</i>

			OTU-4399	0.61237	0.03560	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-4186	0.61237	0.04020	1.00000	Firmicutes	<i>Faecalibacterium</i>
			OTU-3893	0.61237	0.04070	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-3879	0.61237	0.03580	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-3586	0.61237	0.03480	1.00000	Firmicutes	<i>Faecalibacterium</i>
			OTU-3187	0.61237	0.03630	1.00000	Firmicutes	<i>Roseburia</i>
			OTU-3116	0.61237	0.03470	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2880	0.61237	0.03300	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2811	0.61237	0.03720	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2082	0.62361	0.04200	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-2006	0.61237	0.03460	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-1903	0.79057	0.00210	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-1636	0.61237	0.03670	1.00000	Firmicutes	<i>Ruminococcaceae uncl.</i>
			OTU-1593	0.61020	0.03650	1.00000	Firmicutes	<i>Faecalibacterium</i>
			OTU-1268	0.79057	0.00250	1.00000	Firmicutes	<i>Firmicutes uncl.</i>
			OTU-1246	0.75245	0.01460	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-1104	0.68313	0.02930	1.00000	Firmicutes	<i>Faecalibacterium</i>
			OTU-984	0.77460	0.04940	1.00000	Firmicutes	<i>Fusicatenibacter</i>
			OTU-809	0.73193	0.02020	1.00000	Firmicutes	<i>Clostridium XVIII</i>
			OTU-687	0.78745	0.02970	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-641	0.60457	0.03660	1.00000	Firmicutes	<i>Ruminococcaceae uncl.</i>
			OTU-618	0.79772	0.02410	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
			OTU-603	0.76233	0.02430	1.00000	Firmicutes	<i>Ruminococcus2</i>
			OTU-185	0.70302	0.02430	1.00000	Firmicutes	<i>Lachnospiraceae uncl.</i>
		#	OTU-7	0.61237	0.03490	1.00000	Firmicutes	<i>Gemella</i>
			OTU-1	0.67990	0.01510	1.00000	Firmicutes	<i>Streptococcus</i>
Oral	Disease	CRMO	OTU-2267	0.45644	0.04870	0.45846	Actinobacteria	<i>Actinomyces</i>
			OTU-1686	0.56143	0.02440	0.40565	Actinobacteria	<i>Rothia</i>
			OTU-1157	0.63344	0.00530	0.33676	Actinobacteria	<i>Actinomyces</i>
			OTU-1136	0.55982	0.04600	0.45846	Actinobacteria	<i>Rothia</i>
			OTU-664	0.53597	0.02560	0.40565	Actinobacteria	<i>Actinomyces</i>
			OTU-462	0.76347	0.00050	0.17473	Actinobacteria	<i>Propionibacteriaceae uncl.</i>
			OTU-313	0.76712	0.00490	0.33676	Actinobacteria	<i>Actinomyces</i>
			OTU-200	0.83789	0.03490	0.42056	Actinobacteria	<i>Corynebacterium</i>
			OTU-155	0.74820	0.04820	0.45846	Actinobacteria	<i>Actinomyces</i>
			OTU-50	0.78985	0.01960	0.40565	Actinobacteria	<i>Corynebacterium</i>
			OTU-31	0.90058	0.01620	0.40565	Actinobacteria	<i>Rothia</i>

	OTU-15	0.88556	0.00160	0.27957	Actinobacteria	<i>Rothia</i>
	OTU-1043	0.56688	0.04280	0.45846	Bacteroidetes	<i>Capnocytophaga</i>
	OTU-617	0.59558	0.01960	0.40565	Bacteroidetes	<i>Prevotella</i>
	OTU-483	0.56297	0.03460	0.42056	Bacteroidetes	<i>Capnocytophaga</i>
	OTU-55	0.91184	0.03310	0.41936	Bacteroidetes	<i>Capnocytophaga</i>
	OTU-3488	0.45644	0.04980	0.45846	Firmicutes	<i>Streptococcus</i>
	OTU-1153	0.60396	0.02870	0.40565	Firmicutes	<i>Streptococcus</i>
	OTU-324	0.70059	0.02930	0.40565	Firmicutes	<i>Lachnoanaerobaculum</i>
	OTU-46	0.80764	0.04130	0.45846	Firmicutes	<i>Streptococcus</i>
	OTU-30	0.84204	0.02630	0.40565	Firmicutes	<i>Streptococcus</i>
	OTU-2961	0.45644	0.04670	0.45846	Fusobacteria	<i>Leptotrichia</i>
	OTU-1128	0.48947	0.04990	0.45846	Fusobacteria	<i>Leptotrichia</i>
	OTU-910	0.53260	0.02790	0.40565	Fusobacteria	<i>Leptotrichia</i>
	OTU-760	0.66506	0.00700	0.37567	Fusobacteria	<i>Leptotrichia</i>
	OTU-689	0.53571	0.02530	0.40565	Fusobacteria	<i>Leptotrichia</i>
	OTU-43	0.88420	0.03680	0.43594	Fusobacteria	<i>Leptotrichia</i>
	OTU-2040	0.45644	0.04720	0.45846	Proteobacteria	<i>Aggregatibacter</i>
	OTU-1613	0.51961	0.02130	0.40565	Proteobacteria	<i>Eikenella</i>
	OTU-1033	0.58503	0.02820	0.40565	Proteobacteria	<i>Lautropia</i>
	OTU-835	0.50000	0.02420	0.40565	Proteobacteria	<i>Cardiobacterium</i>
	OTU-740	0.64555	0.03340	0.41936	Proteobacteria	<i>Pasteurellaceae uncl.</i>
	OTU-512	0.84175	0.00010	0.06989	Proteobacteria	<i>Kingella</i>
	OTU-493	0.64635	0.04130	0.45846	Proteobacteria	<i>Pasteurellaceae uncl.</i>
	OTU-471	0.57286	0.04570	0.45846	Proteobacteria	<i>Neisseriaceae uncl.</i>
	OTU-311	0.83345	0.00860	0.37567	Proteobacteria	<i>Cardiobacterium</i>
	OTU-285	0.63626	0.01500	0.40565	Proteobacteria	<i>Kingella</i>
#	OTU-279	0.65238	0.03260	0.41936	Proteobacteria	<i>Kingella</i>
	OTU-257	0.81796	0.00320	0.27957	Proteobacteria	<i>Eikenella</i>
	OTU-255	0.79320	0.00950	0.39058	Proteobacteria	<i>Campylobacter</i>
	OTU-210	0.72039	0.02630	0.40565	Proteobacteria	<i>Campylobacter</i>
	OTU-126	0.86338	0.00220	0.27957	Proteobacteria	<i>Kingella</i>
Healthy	OTU-3415	0.46625	0.02370	0.40565	Bacteroidetes	<i>Bacteroidetes uncl.</i>
	OTU-2245	0.46625	0.02330	0.40565	Bacteroidetes	<i>Prevotellaceae uncl.</i>
	OTU-1481	0.53486	0.01470	0.40565	Bacteroidetes	<i>Porphyromonas</i>
	OTU-1428	0.51828	0.04980	0.45846	Bacteroidetes	<i>Prevotellaceae uncl.</i>
	OTU-1263	0.51075	0.01160	0.40565	Bacteroidetes	<i>Bacteroidetes uncl.</i>
	OTU-1258	0.46625	0.02470	0.40565	Bacteroidetes	<i>Bacteroidetes uncl.</i>

		OTU-1009	0.52536	0.02810	0.40565	Bacteroidetes	<i>Flavobacteriaceae uncl.</i>
		OTU-814	0.64764	0.00310	0.27957	Bacteroidetes	<i>Bacteroidetes uncl.</i>
		OTU-710	0.65642	0.01900	0.40565	Bacteroidetes	<i>Prevotellaceae uncl.</i>
		OTU-652	0.60069	0.04540	0.45846	Bacteroidetes	<i>Bacteroidales uncl.</i>
		OTU-578	0.65450	0.01730	0.40565	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>
		OTU-548	0.74089	0.00110	0.25627	Bacteroidetes	<i>Prevotellaceae uncl.</i>
		OTU-536	0.54723	0.03360	0.41936	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>
		OTU-280	0.63817	0.01640	0.40565	Bacteroidetes	<i>Prevotellaceae uncl.</i>
		OTU-266	0.66795	0.03280	0.41936	Bacteroidetes	<i>Prevotellaceae uncl.</i>
		OTU-52	0.83957	0.00730	0.37567	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>
		OTU-223	0.66954	0.02700	0.40565	Cand. Saccharibacteria	<i>Cand. Saccharibacteria uncl.</i>
		OTU-2973	0.46625	0.02160	0.40565	Firmicutes	<i>Streptococcus</i>
		OTU-2323	0.47902	0.04540	0.45846	Firmicutes	<i>Veillonella</i>
		OTU-1152	0.58828	0.01410	0.40565	Firmicutes	<i>Streptococcus</i>
		OTU-670	0.60303	0.02960	0.40565	Firmicutes	<i>Veillonella</i>
		OTU-604	0.54836	0.01260	0.40565	Firmicutes	<i>Veillonella</i>
		OTU-546	0.46625	0.02440	0.40565	Firmicutes	<i>Clostridiales uncl.</i>
		OTU-519	0.70638	0.00300	0.27957	Firmicutes	<i>Veillonella</i>
		OTU-82	0.85137	0.00530	0.33676	Firmicutes	<i>Granulicatella</i>
		OTU-68	0.85076	0.00830	0.37567	Firmicutes	<i>Veillonella</i>
		OTU-1035	0.57727	0.02070	0.40565	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-1025	0.60850	0.02800	0.40565	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-655	0.72275	0.00790	0.37567	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-347	0.75925	0.02220	0.40565	Proteobacteria	<i>Haemophilus</i>
		OTU-318	0.58363	0.01590	0.40565	SR1	<i>SR1 uncl.</i>
Relapse	No	OTU-1346	0.68313	0.04070	1.00000	Bacteroidetes	<i>Bacteroidetes uncl.</i>
		OTU-996	0.70411	0.04990	1.00000	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-279	0.85635	0.00790	1.00000	Proteobacteria	<i>Kingella</i>
	Yes	OTU-3986	0.57735	0.04070	1.00000	Actinobacteria	<i>Actinomyces</i>
		OTU-4146	0.57735	0.03920	1.00000	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>
		OTU-2814	0.57735	0.04280	1.00000	Bacteroidetes	<i>Prevotellaceae uncl.</i>
		OTU-2179	0.57735	0.03920	1.00000	Bacteroidetes	<i>Capnocytophaga</i>
		OTU-1071	0.67420	0.04140	1.00000	Bacteroidetes	<i>Prevotella</i>
		OTU-5082	0.57735	0.03780	1.00000	Firmicutes	<i>Streptococcus</i>
		OTU-3989	0.57735	0.04170	1.00000	Firmicutes	<i>Streptococcus</i>
		OTU-2714	0.66667	0.01270	1.00000	Firmicutes	<i>Streptococcus</i>
		OTU-2628	0.63564	0.02990	1.00000	Firmicutes	<i>Streptococcus</i>

		OTU-1607	0.57735	0.04430	1.00000	Firmicutes	<i>Streptococcus</i>
		OTU-2344	0.63564	0.03000	1.00000	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-2318	0.57735	0.04120	1.00000	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-1853	0.57735	0.03780	1.00000	Proteobacteria	<i>Aggregatibacter</i>
		OTU-1030	0.63717	0.03060	1.00000	Proteobacteria	<i>Pasteurellaceae uncl.</i>
		OTU-149	0.88434	0.02500	1.00000	Proteobacteria	<i>Haemophilus</i>

Table S2: Top twenty five most important bacterial genera and species level OTUs of fecal and oral microbial communities separating healthy and CRMO individuals using supervised classification via RandomForest (potential HACEK-group members are highlighted in **bold face**).

Data	OTU-ID	Classification	Indicator association	Gini importance
Oral	-	<i>Corynebacterium</i>	CRMO	0.38480
	-	<i>Leptotrichia</i>	CRMO	0.38219
	-	<i>Bacteroidales uncl.</i>		0.37886
	-	Kingella	CRMO	0.36425
	-	<i>Prevotella</i>		0.34125
	-	<i>Capnocytophaga</i>		0.33386
	-	<i>Actinomyces</i>	CRMO	0.28600
	-	<i>Campylobacter</i>	CRMO	0.26798
	-	Eikenella	CRMO	0.26667
	-	<i>Propionibacteriaceae uncl.</i>	CRMO	0.24988
	-	<i>Prevotellaceae uncl.</i>		0.23891
	-	<i>Rothia</i>		0.23160
	-	Cardiobacterium	CRMO	0.22993
	-	<i>Fusobacterium</i>		0.22473
	-	<i>Alloprevotella</i>		0.21320
	-	<i>Leptotrichiaceae uncl.</i>		0.21036
	-	<i>Bacteroides</i>		0.21025
	-	<i>Oribacterium</i>		0.20826
	-	<i>Neisseria</i>		0.20059
	-	<i>Veillonella</i>	Healthy	0.19530
	-	Aggregatibacter		0.19048
	-	<i>Streptococcus</i>		0.18800
	-	<i>Fusobacteriales uncl.</i>		0.18666
	-	<i>Bacteria uncl.</i>		0.18005
	-	<i>Lautropia</i>	CRMO	0.17536
Fecal	-	<i>Oscillibacter</i>	Healthy; No-Relapse	1.23055
	-	<i>Barnesiella</i>	Healthy; No-Relapse	0.98788
	-	<i>Faecalibacterium</i>	CRMO	0.90745
	-	<i>Ruminococcaceae uncl.</i>		0.85466
	-	<i>Enterobacteriaceae uncl.</i>		0.80744
	-	<i>Clostridiales uncl.</i>		0.59859
	-	<i>Coprococcus</i>		0.58542
	-	<i>Bacteria uncl.</i>		0.58435
	-	<i>Odoribacter</i>	No-Relapse	0.55470
	-	<i>Subdoligranulum</i>		0.53603
	-	<i>Holdemania</i>	Healthy	0.52568
	-	<i>Coprobacter</i>	Healthy	0.41625
	-	<i>Fusicatenibacter</i>		0.41393
	-	<i>Sutterella</i>		0.39534
	-	<i>Bilophila</i>	Healthy	0.37266
	-	<i>Dialister</i>		0.34178
	-	<i>Paraprevotella</i>	Healthy	0.33044
	-	<i>Clostridia uncl.</i>		0.32762
	-	<i>Anaerostipes</i>		0.31833
	-	Haemophilus		0.31725
	-	<i>Alistipes</i>	No-Relapse	0.27261

	-	<i>Erysipelotrichaceae uncl.</i>		0.25180
	-	<i>Butyricicoccus</i>		0.25149
	-	<i>Bacteroidales uncl.</i>		0.23852
	-	<i>Bacteroides</i>		0.22645
Oral	Otu00512	<i>Kingella</i>	CRMO	5.14815
	Otu00126	<i>Kingella</i>	CRMO	1.53027
	Otu00046	<i>Streptococcus</i>	CRMO	0.60750
	Otu00109	<i>Pasteurellaceae uncl.</i>		0.51713
	Otu00038	<i>Haemophilus</i>		0.46161
	Otu00015	<i>Rothia</i>	CRMO	0.45291
	Otu00033	<i>Veillonella</i>		0.44075
	Otu00304	<i>Actinomyces</i>		0.43888
	Otu00030	<i>Streptococcus</i>	CRMO	0.36194
	Otu00068	<i>Veillonella</i>	Healthy	0.32744
	Otu00462	<i>Propionibacteriaceae uncl.</i>	CRMO	0.32691
	Otu00252	<i>Prevotella</i>		0.32002
	Otu00001	<i>Streptococcus</i>	Fecal-healthy/Fecal-Relapse	0.31659
	Otu00024	<i>Rothia</i>		0.30075
	Otu00200	<i>Corynebacterium</i>	CRMO	0.27309
	Otu00130	<i>Prevotella</i>		0.26024
	Otu00935	<i>Pasteurellaceae uncl.</i>		0.22326
	Otu00548	<i>Prevotellaceae uncl.</i>	Healthy	0.20355
	Otu00052	<i>Porphyromonadaceae uncl.</i>	Healthy	0.19980
	Otu00004	<i>Streptococcus</i>		0.19860
	Otu00007	<i>Gemella</i>	Fecal-Relapse	0.19364
	Otu00136	<i>Neisseria</i>		0.19355
	Otu00135	<i>Porphyromonadaceae uncl.</i>		0.19350
	Otu00463	<i>Prevotella</i>		0.18858
	Otu00355	<i>Pasteurellaceae uncl.</i>		0.18359
Fecal	Otu00047	<i>Ruminococcaceae uncl.</i>	Healthy	0.15949
	Otu00060	<i>Ruminococcaceae uncl.</i>	Healthy	0.13304
	Otu00110	<i>Oscillibacter</i>	Healthy	0.12736
	Otu00042	<i>Clostridiales uncl.</i>		0.09481
	Otu00026	<i>Oscillibacter</i>		0.09259
	Otu00089	<i>Ruminococcaceae uncl.</i>		0.08894
	Otu00788	<i>Lachnospiraceae uncl.</i>	Healthy	0.08235
	Otu00238	<i>Oscillibacter</i>	Healthy	0.08116
	Otu00426	<i>Lachnospiraceae uncl.</i>	CRMO	0.08052
	Otu00053	<i>Faecalibacterium</i>	CRMO	0.07929
	Otu00178	<i>Ruminococcus</i>		0.07207
	Otu01297	<i>Ruminococcaceae uncl.</i>	Healthy	0.07047
	Otu00208	<i>Bacteria uncl.</i>	Healthy	0.06995
	Otu00118	<i>Coprococcus</i>	Healthy	0.06865
	Otu00974	<i>Ruminococcaceae uncl.</i>	Healthy	0.06700
	Otu00196	<i>Ruminococcaceae uncl.</i>	Healthy	0.06689
	Otu00117	<i>Lachnospiraceae uncl.</i>	Healthy	0.06504
	Otu00036	<i>Alistipes</i>		0.06475
	Otu00013	<i>Ruminococcaceae uncl.</i>		0.06462
	Otu00128	<i>Sutterella</i>	Healthy	0.05892
	Otu00058	<i>Ruminococcaceae uncl.</i>		0.05882
	Otu00587	<i>Clostridium sensu stricto</i>		0.05800
	Otu00077	<i>Dialister</i>	Healthy	0.05747

Otu00903	<i>Holdemania</i>	Healthy	0.05711
Otu00360	<i>Oscillibacter</i>	Healthy	0.05636

Table S3: Significant taxon centralities in the consensus genus networks of fecal and oral communities based on network permutation (10'000 permutations, one-sided Z test). Potential members of the HACEK-group members are highlighted in bold face and taxa in red mark repeated detections.

Data	Centrality	Genus classification	Z	Observed	P (one-sided Z)	Indicator
Oral	Betweenness	<i>Fusobacteriales uncl.</i>	5.31500	0.08117	5.33297×10^{-8}	CRMO
		<i>Streptococcus</i>	4.53384	0.07277	2.89604×10^{-6}	
		<i>Fusobacterium</i>	2.55654	0.04452	0.00529	
		<i>Campylobacter</i>	2.55403	0.04452	0.00532	
		SR1 uncl.	2.27059	0.04145	0.01159	
		<i>Proteobacteria uncl.</i>	1.86658	0.03559	0.03098	
		<i>Bacteria uncl.</i>	1.81297	0.03479	0.03492	
		<i>Eikenella</i>	1.72483	0.03439	0.04228	
		<i>Kingella</i>	1.67379	0.03292	0.04709	
	Degree	<i>Streptococcus</i>	3.83418	0.36585	0.00006	CRMO
		<i>Leptotrichiaceae uncl.</i>	2.90685	0.30081	0.00183	
		<i>Capnocytophaga</i>	2.82413	0.29268	0.00237	
		<i>Campylobacter</i>	2.65533	0.28455	0.00396	
		<i>Fusobacterium</i>	2.45213	0.26829	0.00710	
		<i>Eikenella</i>	2.30821	0.26016	0.01049	
		<i>Bacteria uncl.</i>	2.10684	0.24390	0.01757	
		<i>Fusobacteriales uncl.</i>	2.09644	0.24390	0.01802	
		<i>Prevotella</i>	1.73242	0.21951	0.04160	
	PageRank	<i>Streptococcus</i>	7.60251	0.04849	1.45220×10^{-14}	
		<i>Haemophilus</i>	1.78710	0.01739	0.03696	
		<i>Capnocytophaga</i>	1.76531	0.01732	0.03876	
		<i>Gemella</i>	1.66045	0.01671	0.04841	
Fecal	Betweenness	<i>Bacteroides</i>	6.25999	0.12373	1.92505×10^{-10}	Healthy Yes-Relapse No-Relapse
		<i>Paraprevotella</i>	2.54597	0.05562	0.00545	
		<i>Faecalibacterium</i>	2.33675	0.05449	0.00973	
		<i>Clostridium XVIII</i>	2.21830	0.05149	0.01327	
		<i>Coprococcus</i>	2.09234	0.04962	0.01820	
		<i>Gemella</i>	1.87831	0.04674	0.03017	
		<i>Anaerovorax</i>	1.72146	0.04312	0.04258	
		<i>Hungatella</i>	1.65144	0.04262	0.04932	
	Degree	<i>Bacteroides</i>	5.74324	0.40157	4.64421×10^{-9}	CRMO Yes-Relapse Healthy, No-Relapse No-Relapse
		<i>Faecalibacterium</i>	3.69824	0.28346	0.00011	
		<i>Bacteria uncl.</i>	3.65812	0.27559	0.00013	
		<i>Clostridium XVIII</i>	2.65487	0.22047	0.00397	
		<i>Oscillibacter</i>	1.86420	0.17323	0.03115	
		<i>Odoribacter</i>	1.67843	0.16535	0.04663	
	PageRank	<i>Bacteroides</i>	6.94606	0.04751	1.87819×10^{-12}	CRMO Yes-Relapse
		<i>Faecalibacterium</i>	4.49562	0.03345	3.46840×10^{-6}	
		<i>Bacteria uncl.</i>	3.63793	0.02793	0.00014	
		<i>Clostridium XVIII</i>	3.03313	0.02470	0.00121	
		<i>Clostridiales uncl.</i>	2.27230	0.02052	0.01153	

Table S3: Significant taxon centralities in the species level OTU networks of fecal and oral communities based on network permutation (10'000 permutations, one-sided Z test). Potential members of the HACEK-group members are highlighted in bold face and taxa in red mark repeated detections.

Data	Centrality	OTU-ID	Z	Observed	P(one-sided Z)	Phylum	Genus	Indicator
Oral	Betweenness	OTU-257	7.01483	0.01860	1.15×10⁻¹²	Proteobacteria	<i>Eikenella</i>	CRMO
		OTU-39	5.98563	0.01525	1.08×10 ⁻⁹	Bacteroidetes	<i>Prevotella</i>	CRMO
		OTU-255	5.64501	0.01468	8.26×10 ⁻⁹	Proteobacteria	<i>Campylobacter</i>	
		OTU-412	4.78521	0.01277	8.54×10 ⁻⁷	Fusobacteria	<i>Fusobacterium</i>	
		OTU-130	4.45715	0.01201	4.15×10 ⁻⁶	Bacteroidetes	<i>Prevotella</i>	
		OTU-88	3.75790	0.01036	0.00009	Fusobacteria	<i>Leptotrichiaceae uncl.</i>	
		OTU-635	3.50893	0.00978	0.00022	Firmicutes	<i>Selenomonas</i>	
		OTU-972	3.39123	0.00976	0.00035	Firmicutes	<i>Streptococcus</i>	
		OTU-137	3.42315	0.00967	0.00031	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	
		OTU-104	3.13234	0.00943	0.00087	Fusobacteria	<i>Fusobacterium</i>	
		OTU-409	3.26081	0.00914	0.00056	Bacteroidetes	<i>Flavobacteriaceae uncl.</i>	
		OTU-50	3.00009	0.00911	0.00135	Actinobacteria	<i>Corynebacterium</i>	CRMO
		OTU-548	3.04141	0.00892	0.00118	Bacteroidetes	<i>Prevotellaceae uncl.</i>	Healthy
		OTU-121	2.93745	0.00883	0.00165	Fusobacteria	<i>Leptotrichia</i>	CRMO CRMO
		OTU-240	2.94976	0.00851	0.00159	Fusobacteria	<i>Fusobacterium</i>	
		OTU-100	2.75081	0.00837	0.00297	Proteobacteria	<i>Haemophilus</i>	
		OTU-358	2.65973	0.00808	0.00391	Firmicutes	<i>Selenomonas</i>	
		OTU-275	2.76833	0.00802	0.00282	Firmicutes	<i>Gemella</i>	
		OTU-749	2.58830	0.00790	0.00482	Proteobacteria	<i>Pasteurellaceae uncl.</i>	
		OTU-126	2.65121	0.00789	0.00401	Proteobacteria	<i>Kingella</i>	
		OTU-210	2.56354	0.00782	0.00518	Proteobacteria	<i>Campylobacter</i>	
		OTU-431	2.47820	0.00781	0.00660	SR1	<i>SR1 uncl.</i>	
		OTU-78	2.60280	0.00773	0.00462	Fusobacteria	<i>Fusobacterium</i>	
		OTU-353	2.36830	0.00728	0.00893	Actinobacteria	<i>Corynebacterium</i>	Healthy
		OTU-204	2.25135	0.00727	0.01218	Bacteroidetes	<i>Capnocytophaga</i>	
		OTU-232	2.27317	0.00718	0.01151	Bacteroidetes	<i>Prevotella</i>	
		OTU-1025	2.23318	0.00716	0.01277	Proteobacteria	<i>Pasteurellaceae uncl.</i>	
		OTU-62	1.89637	0.00678	0.02896	Bacteroidetes	<i>Porphyromonas</i>	
		OTU-715	2.09214	0.00662	0.01821	Bacteria uncl.	<i>Bacteria uncl.</i>	
		OTU-1022	2.00844	0.00661	0.02230	Fusobacteria	<i>Leptotrichia</i>	
		OTU-40	2.02003	0.00658	0.02169	Bacteroidetes	<i>Porphyromonas</i>	

	OTU-132	2.02391	0.00658	0.02149	Proteobacteria	<i>Campylobacter</i>	
	OTU-740	1.96111	0.00655	0.02493	Proteobacteria	<i>Pasteurellaceae uncl.</i>	CRMO
	OTU-162	1.90520	0.00655	0.02838	Actinobacteria	<i>Actinomyces</i>	
	OTU-297	1.98380	0.00652	0.02364	Fusobacteria	<i>Leptotrichiaceae uncl.</i>	
	OTU-1009	1.99249	0.00651	0.02316	Bacteroidetes	<i>Flavobacteriaceae uncl.</i>	Healthy
	OTU-314	1.94760	0.00642	0.02573	Bacteroidetes	<i>Capnocytophaga</i>	
	OTU-1018	1.96734	0.00642	0.02457	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
	OTU-293	1.88071	0.00640	0.03001	Bacteroidetes	<i>Prevotella</i>	
	OTU-469	1.90871	0.00624	0.02815	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-99	1.79125	0.00622	0.03663	Proteobacteria	<i>Pasteurellaceae uncl.</i>	
	OTU-296	1.85720	0.00610	0.03164	Bacteroidetes	<i>Prevotella</i>	
	OTU-479	1.69040	0.00596	0.04548	Proteobacteria	<i>Haemophilus</i>	
	OTU-1221	1.72569	0.00590	0.04220	Proteobacteria	<i>Cardiobacterium</i>	
	OTU-512	1.67355	0.00587	0.04711	Proteobacteria	<i>Kingella</i>	CRMO
	OTU-790	1.73929	0.00586	0.04099	Bacteroidetes	<i>Porphyromonas</i>	
	OTU-340	1.67386	0.00586	0.04708	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-179	1.75758	0.00581	0.03941	Firmicutes	<i>Streptococcus</i>	
Degree	OTU-257	3.74468	0.20839	0.00009	Proteobacteria	<i>Eikenella</i>	CRMO
	OTU-126	3.65999	0.20116	0.00013	Proteobacteria	<i>Kingella</i>	CRMO
	OTU-417	3.39320	0.19392	0.00035	Proteobacteria	<i>Haemophilus</i>	
	OTU-255	3.10827	0.18090	0.00094	Proteobacteria	<i>Campylobacter</i>	CRMO
	OTU-43	3.06498	0.17656	0.00109	Fusobacteria	<i>Leptotrichia</i>	CRMO
	OTU-210	3.03738	0.17656	0.00119	Proteobacteria	<i>Campylobacter</i>	CRMO
	OTU-55	2.93148	0.17366	0.00169	Bacteroidetes	<i>Capnocytophaga</i>	CRMO
	OTU-652	2.95033	0.17366	0.00159	Bacteroidetes	<i>Bacteroidales uncl.</i>	Healthy
	OTU-100	2.92474	0.17221	0.00172	Proteobacteria	<i>Haemophilus</i>	
	OTU-327	2.86030	0.16932	0.00212	Bacteroidetes	<i>Bacteroidales uncl.</i>	
	OTU-132	2.83173	0.16787	0.00231	Proteobacteria	<i>Campylobacter</i>	
	OTU-538	2.79986	0.16643	0.00256	Proteobacteria	<i>Haemophilus</i>	
	OTU-33	2.62956	0.16208	0.00427	Firmicutes	<i>Veillonella</i>	
	OTU-39	2.54691	0.15630	0.00543	Bacteroidetes	<i>Prevotella</i>	
	OTU-50	2.43571	0.15630	0.00743	Actinobacteria	<i>Corynebacterium</i>	CRMO
	OTU-88	2.52356	0.15340	0.00581	Fusobacteria	<i>Leptotrichiaceae uncl.</i>	
	OTU-293	2.42143	0.15340	0.00773	Bacteroidetes	<i>Prevotella</i>	
	OTU-790	2.52364	0.15340	0.00581	Bacteroidetes	<i>Porphyromonas</i>	
	OTU-121	2.37625	0.15195	0.00874	Fusobacteria	<i>Leptotrichia</i>	
	OTU-311	2.42309	0.15195	0.00769	Proteobacteria	<i>Cardiobacterium</i>	CRMO

OTU-631	2.44165	0.15195	0.00731	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
OTU-97	2.36158	0.14906	0.00910	Firmicutes	<i>Streptococcus</i>	
OTU-635	2.37157	0.14761	0.00886	Firmicutes	<i>Selenomonas</i>	
OTU-12	2.33426	0.14616	0.00979	Proteobacteria	<i>Haemophilus</i>	
OTU-409	2.29507	0.14616	0.01086	Bacteroidetes	<i>Flavobacteriaceae uncl.</i>	
OTU-578	2.28016	0.14616	0.01130	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
OTU-814	2.21756	0.14472	0.01329	Bacteroidetes	<i>Bacteroidetes uncl.</i>	Healthy
OTU-1018	2.27704	0.14472	0.01139	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
OTU-1062	2.22848	0.14472	0.01292	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
OTU-115	2.16673	0.14038	0.01513	Actinobacteria	<i>Actinomyces</i>	
OTU-137	2.18679	0.14038	0.01438	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	
OTU-149	2.08685	0.13893	0.01845	Proteobacteria	<i>Haemophilus</i>	Yes-Relapse
OTU-401	2.10843	0.13893	0.01750	Proteobacteria	<i>Haemophilus</i>	
OTU-412	2.11745	0.13893	0.01711	Fusobacteria	<i>Fusobacterium</i>	
OTU-52	2.06203	0.13748	0.01960	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
OTU-422	2.08759	0.13748	0.01842	Bacteroidetes	<i>Bacteroidales uncl.</i>	
OTU-135	2.02941	0.13603	0.02121	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	
OTU-867	2.08180	0.13603	0.01868	Bacteroidetes	<i>Porphyromonas</i>	
OTU-892	2.03591	0.13459	0.02088	Fusobacteria	<i>Streptobacillus</i>	
OTU-536	1.95747	0.13314	0.02515	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
OTU-972	1.93169	0.13169	0.02670	Firmicutes	<i>Streptococcus</i>	
OTU-162	1.87560	0.13025	0.03036	Actinobacteria	<i>Actinomyces</i>	
OTU-240	2.00759	0.13025	0.02234	Fusobacteria	<i>Fusobacterium</i>	
OTU-358	1.85347	0.12735	0.03191	Firmicutes	<i>Selenomonas</i>	
OTU-462	1.89486	0.12735	0.02906	Actinobacteria	<i>Propionibacteriaceae uncl.</i>	CRMO
OTU-512	1.81875	0.12735	0.03447	Proteobacteria	<i>Kingella</i>	CRMO
OTU-46	1.82351	0.12590	0.03411	Firmicutes	<i>Streptococcus</i>	CRMO
OTU-104	1.81862	0.12590	0.03448	Fusobacteria	<i>Fusobacterium</i>	
OTU-324	1.83547	0.12590	0.03322	Firmicutes	<i>Lachnoanaerobaculum</i>	CRMO
OTU-78	1.77748	0.12446	0.03774	Fusobacteria	<i>Fusobacterium</i>	
OTU-91	1.77529	0.12446	0.03792	Firmicutes	<i>Streptococcus</i>	
OTU-553	1.71990	0.12301	0.04273	Firmicutes	<i>Veillonella</i>	
OTU-158	1.66536	0.12156	0.04792	Proteobacteria	<i>Pasteurellaceae uncl.</i>	
OTU-275	1.72737	0.12156	0.04205	Firmicutes	<i>Gemella</i>	
OTU-51	1.71330	0.12012	0.04333	Proteobacteria	<i>Lautropia</i>	
OTU-68	1.70005	0.12012	0.04456	Firmicutes	<i>Veillonella</i>	Healthy

	OTU-94	1.68118	0.12012	0.04636	Bacteroidetes	<i>Capnocytophaga</i>	
	OTU-516	1.68103	0.12012	0.04638	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
	OTU-264	1.66064	0.11867	0.04839	Bacteroidetes	<i>Capnocytophaga</i>	
	OTU-296	1.65631	0.11867	0.04883	Bacteroidetes	<i>Prevotella</i>	
	OTU-730	1.65849	0.11867	0.04861	Proteobacteria	<i>Haemophilus</i>	
PageRank	OTU-417	2.93885	0.00451	0.00165	Proteobacteria	<i>Haemophilus</i>	
	OTU-327	2.85214	0.00437	0.00217	Bacteroidetes	<i>Bacteroidales uncl.</i>	
	OTU-538	2.80779	0.00432	0.00249	Proteobacteria	<i>Haemophilus</i>	
	OTU-100	2.67949	0.00421	0.00369	Proteobacteria	<i>Haemophilus</i>	
	OTU-652	2.49208	0.00401	0.00635	Bacteroidetes	<i>Bacteroidales uncl.</i>	Healthy
	OTU-422	2.45905	0.00396	0.00697	Bacteroidetes	<i>Bacteroidales uncl.</i>	
	OTU-12	2.44515	0.00392	0.00724	Proteobacteria	<i>Haemophilus</i>	
	OTU-210	2.39445	0.00391	0.00832	Proteobacteria	<i>Campylobacter</i>	CRMO
	OTU-137	2.35719	0.00383	0.00921	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	
	OTU-50	2.22299	0.00382	0.01311	Actinobacteria	<i>Corynebacterium</i>	CRMO
	OTU-536	2.25334	0.00378	0.01212	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
	OTU-88	2.26378	0.00372	0.01179	Fusobacteria	<i>Leptotrichiaceae uncl.</i>	
	OTU-578	2.17505	0.00371	0.01481	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
	OTU-149	2.15508	0.00369	0.01558	Proteobacteria	<i>Haemophilus</i>	Yes-Relapse
	OTU-516	2.15843	0.00364	0.01545	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
	OTU-121	2.04898	0.00360	0.02023	Fusobacteria	<i>Leptotrichia</i>	
	OTU-52	2.05281	0.00358	0.02005	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
	OTU-311	2.03772	0.00355	0.02079	Proteobacteria	<i>Cardiobacterium</i>	CRMO
	OTU-462	2.10329	0.00354	0.01772	Actinobacteria	<i>Propionibacteriaceae uncl.</i>	CRMO
	OTU-631	2.06075	0.00354	0.01966	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
	OTU-1062	2.01250	0.00354	0.02208	Bacteroidetes	<i>Bacteroidetes uncl.</i>	
	OTU-126	2.01481	0.00350	0.02196	Proteobacteria	<i>Kingella</i>	CRMO
	OTU-255	1.97341	0.00349	0.02422	Proteobacteria	<i>Campylobacter</i>	CRMO
	OTU-158	1.94885	0.00348	0.02566	Proteobacteria	<i>Pasteurellaceae uncl.</i>	
	OTU-135	1.95697	0.00348	0.02518	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	
	OTU-867	1.94053	0.00341	0.02616	Bacteroidetes	<i>Porphyromonas</i>	
	OTU-55	1.88568	0.00341	0.02967	Bacteroidetes	<i>Capnocytophaga</i>	CRMO
	OTU-257	1.82665	0.00336	0.03388	Proteobacteria	<i>Eikenella</i>	CRMO
	OTU-892	1.88095	0.00336	0.02999	Fusobacteria	<i>Streptobacillus</i>	
	OTU-445	1.84580	0.00336	0.03246	Bacteroidetes	<i>Bacteroidales uncl.</i>	
	OTU-401	1.84765	0.00336	0.03233	Proteobacteria	<i>Haemophilus</i>	

Fecal	Betweenness	OTU-814	1.79598	0.00333	0.03625	Bacteroidetes	<i>Bacteroidetes uncl.</i>	Healthy
		OTU-368	1.81743	0.00333	0.03458	Proteobacteria	<i>Actinobacillus</i>	
		OTU-162	1.78646	0.00332	0.03701	Actinobacteria	<i>Actinomyces</i>	Healthy
		OTU-97	1.79183	0.00328	0.03658	Firmicutes	<i>Streptococcus</i>	
		OTU-68	1.79773	0.00327	0.03611	Firmicutes	<i>Veillonella</i>	
		OTU-91	1.78807	0.00327	0.03688	Firmicutes	<i>Streptococcus</i>	
		OTU-297	1.75222	0.00324	0.03987	Fusobacteria	<i>Leptotrichiaceae uncl.</i>	
		OTU-409	1.74653	0.00324	0.04036	Bacteroidetes	<i>Flavobacteriaceae uncl.</i>	Healthy
		OTU-790	1.76763	0.00321	0.03856	Bacteroidetes	<i>Porphyromonas</i>	
		OTU-10	1.68485	0.00319	0.04601	Bacteroidetes	<i>Prevotellaceae uncl.</i>	
		OTU-546	1.67180	0.00316	0.04728	Firmicutes	<i>Clostridiales uncl.</i>	
		OTU-464	1.64721	0.00315	0.04976	Proteobacteria	<i>Pasteurellaceae uncl.</i>	
		OTU-51	1.69830	0.00314	0.04473	Proteobacteria	<i>Lautropia</i>	
		OTU-469	1.64995	0.00314	0.04948	Bacteria uncl.	<i>Bacteria uncl.</i>	
		OTU-191	11.27275	0.01762	8.94×10^{-30}	Bacteria uncl.	<i>Bacteria uncl.</i>	Healthy
		OTU-303	6.16100	0.00929	3.61×10^{-10}	Firmicutes	<i>Ruminococcaceae uncl.</i>	
		OTU-113	5.55280	0.00927	1.41×10^{-8}	Bacteria uncl.	<i>Bacteria uncl.</i>	
		OTU-250	5.27608	0.00835	6.60×10^{-8}	Bacteroidetes	<i>Paraprevotella</i>	
		OTU-392	5.18111	0.00829	1.10×10^{-7}	Firmicutes	<i>Ruminococcaceae uncl.</i>	
Fecal	Betweenness	OTU-174	5.07580	0.00819	1.93×10^{-7}	Firmicutes	<i>Lachnospiraceae uncl.</i>	No-Relapse
		OTU-26	4.96332	0.00807	3.46×10^{-7}	Firmicutes	<i>Oscillibacter</i>	
		OTU-79	4.81109	0.00806	7.51×10^{-7}	Bacteria uncl.	<i>Bacteria uncl.</i>	
		OTU-47	5.07334	0.00802	1.95×10^{-7}	Firmicutes	<i>Ruminococcaceae uncl.</i>	
		OTU-1156	5.21938	0.00796	8.98×10^{-8}	Firmicutes	<i>Lachnospiraceae uncl.</i>	
		OTU-378	4.48174	0.00786	3.70×10^{-6}	Firmicutes	<i>Ruminococcaceae uncl.</i>	Yes-Relapse
		OTU-101	4.39616	0.00766	0.00001	Firmicutes	<i>Ruminococcaceae uncl.</i>	
		OTU-42	4.52332	0.00733	3.04×10^{-6}	Firmicutes	<i>Clostridiales uncl.</i>	
		OTU-1246	4.36532	0.00694	0.00001	Firmicutes	<i>Lachnospiraceae uncl.</i>	
		OTU-809	3.75619	0.00682	0.00009	Firmicutes	<i>Clostridium XVIII</i>	
		OTU-393	4.04025	0.00662	0.00003	Firmicutes	<i>Ruminococcaceae uncl.</i>	Yes-Relapse
		OTU-287	4.01804	0.00660	0.00003	Firmicutes	<i>Lachnospiraceae uncl.</i>	
		OTU-89	3.66595	0.00640	0.00012	Firmicutes	<i>Ruminococcaceae uncl.</i>	
		OTU-502	3.68947	0.00634	0.00011	Firmicutes	<i>Ruminococcaceae uncl.</i>	
		OTU-592	3.39270	0.00584	0.00035	Firmicutes	<i>Clostridiales Incertae Sedis XIII</i>	

	OTU-525	3.18927	0.00581	0.00071	Firmicutes	<i>uncl.</i>	
	OTU-241	2.91234	0.00546	0.00179	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-735	2.73348	0.00532	0.00313	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-1105	2.90925	0.00522	0.00181	Bacteroidetes	<i>Faecalibacterium</i>	CRMO
	OTU-1303	2.90499	0.00522	0.00184		<i>Bacteroides</i>	
	OTU-453	2.77065	0.00518	0.00280	Firmicutes	<i>Faecalibacterium</i>	
	OTU-14	2.81333	0.00514	0.00245	Proteobacteria	<i>Oxalobacter</i>	CRMO
	OTU-750	2.86400	0.00506	0.00209	Firmicutes	<i>Faecalibacterium</i>	
	OTU-506	2.73630	0.00492	0.00311	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-180	2.56317	0.00484	0.00519	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-449	2.58920	0.00483	0.00481	Firmicutes	<i>Lachnospiraceae uncl.</i>	
					Bacteroidetes	<i>Bacteroides</i>	
	OTU-1031	2.39604	0.00467	0.00829	Bacteria uncl.	<i>Bacteria uncl.</i>	No-Relapse
	OTU-363	2.57771	0.00465	0.00497	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-2044	2.39531	0.00453	0.00830	Firmicutes	<i>Faecalibacterium</i>	CRMO
	OTU-254	2.39505	0.00453	0.00831	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-984	2.37305	0.00452	0.00882	Firmicutes	<i>Fusicatenibacter</i>	Yes-Relapse
	OTU-168	2.43159	0.00447	0.00752	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-373	2.14836	0.00445	0.01584	Bacteroidetes	<i>Porphyromonadaceae uncl.</i>	Healthy
	OTU-329	2.35199	0.00443	0.00934	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-348	2.26368	0.00434	0.01180	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-20	2.11373	0.00433	0.01727	Bacteroidetes	<i>Prevotella</i>	Healthy
	OTU-1147	2.19642	0.00423	0.01403	Firmicutes	<i>Subdoligranulum</i>	
	OTU-428	2.18608	0.00420	0.01440	Firmicutes	<i>Flavonifractor</i>	
	OTU-2024	2.07470	0.00414	0.01901	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-1421	2.09472	0.00413	0.01810	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-110	2.09935	0.00412	0.01789	Firmicutes	<i>Oscillibacter</i>	Healthy
	OTU-571	1.99453	0.00407	0.02305	Firmicutes	<i>Faecalibacterium</i>	
	OTU-341	1.93791	0.00401	0.02632	Firmicutes	<i>Coprococcus</i>	
	OTU-1126	1.95167	0.00395	0.02549	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-1672	2.01767	0.00395	0.02181	Firmicutes	<i>Faecalibacterium</i>	
	OTU-1010	1.93107	0.00393	0.02674	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-904	1.92250	0.00393	0.02727	Firmicutes	<i>Firmicutes uncl.</i>	
	OTU-77	1.86406	0.00390	0.03116	Firmicutes	<i>Dialister</i>	Healthy
	OTU-102	1.80414	0.00390	0.03560	Firmicutes	<i>Oscillibacter</i>	

	OTU-807	1.87962	0.00390	0.03008	Firmicutes	<i>Faecalibacterium</i>	
	OTU-309	1.85709	0.00390	0.03165	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-507	1.86804	0.00389	0.03088	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-193	2.00097	0.00389	0.02270	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-323	1.89595	0.00388	0.02898	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-802	1.85614	0.00387	0.03172	Firmicutes	<i>Roseburia</i>	
	OTU-2653	1.74242	0.00385	0.04072	Firmicutes	<i>Roseburia</i>	
	OTU-451	1.89025	0.00384	0.02936	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-1095	1.76526	0.00382	0.03876	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-118	1.78237	0.00382	0.03734	Firmicutes	<i>Coprococcus</i>	Healthy
	OTU-577	1.82431	0.00382	0.03405	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-151	1.76781	0.00377	0.03855	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-832	1.74439	0.00376	0.04055	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-687	1.75961	0.00374	0.03924	Firmicutes	<i>Lachnospiraceae uncl.</i>	Yes-Relapse
	OTU-2020	1.78989	0.00372	0.03674	Bacteroidetes	<i>Bacteroides</i>	Yes-Relapse
	OTU-152	1.79488	0.00372	0.03634	Bacteroidetes	<i>Odoribacter</i>	No-Relapse
	OTU-172	1.70949	0.00363	0.04368	Firmicutes	<i>Blautia</i>	
	OTU-442	1.86639	0.00363	0.03099	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-116	1.72890	0.00362	0.04191	Firmicutes	<i>Roseburia</i>	
	OTU-530	1.66234	0.00361	0.04822	Firmicutes	<i>Clostridiales uncl.</i>	Healthy
	OTU-103	1.74409	0.00361	0.04057	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-328	1.66377	0.00359	0.04808	Proteobacteria	<i>Bilophila</i>	Healthy
Degree	OTU-26	7.15005	0.15108	4.33743×10^{-13}	Firmicutes	<i>Oscillibacter</i>	
	OTU-191	6.89925	0.14868	2.61386×10^{-12}	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-47	6.81083	0.13989	4.8517×10^{-12}	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-79	5.02310	0.11431	2.5422×10^{-7}	Bacteria uncl.	<i>Bacteria uncl.</i>	No-Relapse
	OTU-42	4.62425	0.10711	1.87976×10^{-6}	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-113	4.48053	0.10392	3.72293×10^{-6}	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-303	4.33684	0.09912	0.00001	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-329	4.20460	0.09752	0.00001	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-14	4.13205	0.09592	0.00002	Firmicutes	<i>Faecalibacterium</i>	CRMO
	OTU-110	4.16697	0.09592	0.00002	Firmicutes	<i>Oscillibacter</i>	Healthy
	OTU-392	3.92523	0.09193	0.00004	Firmicutes	<i>Ruminococcaceae uncl.</i>	

OTU-449	3.63430	0.08873	0.00014	Bacteroidetes	<i>Bacteroides</i>	
OTU-502	3.47881	0.08633	0.00025	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-174	3.45364	0.08553	0.00028	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-525	3.16020	0.08153	0.00079	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-323	3.15596	0.08074	0.00080	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-378	3.09310	0.08074	0.00099	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-592	3.18610	0.08074	0.00072	Firmicutes	<i>Clostridiales Incertae Sedis XIII uncl.</i>	
OTU-101	2.93859	0.07914	0.00165	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-506	3.12080	0.07914	0.00090	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-809	2.90314	0.07834	0.00185	Firmicutes	<i>Clostridium XVIII</i>	Yes-Relapse
OTU-735	2.87685	0.07754	0.00201	Firmicutes	<i>Faecalibacterium</i>	CRMO
OTU-118	2.85360	0.07594	0.00216	Firmicutes	<i>Coprococcus</i>	Healthy
OTU-161	2.89913	0.07594	0.00187	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-60	2.90538	0.07274	0.00183	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
OTU-102	2.70896	0.07274	0.00337	Firmicutes	<i>Oscillibacter</i>	
OTU-442	2.74220	0.07114	0.00305	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-89	2.64702	0.07034	0.00406	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-241	2.63291	0.07034	0.00423	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-250	2.61636	0.06954	0.00444	Bacteroidetes	<i>Paraprevotella</i>	Healthy
OTU-20	2.40168	0.06875	0.00816	Bacteroidetes	<i>Prevotella</i>	Healthy
OTU-328	2.50915	0.06875	0.00605	Proteobacteria	<i>Bilophila</i>	Healthy
OTU-393	2.59789	0.06875	0.00469	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-216	2.43297	0.06635	0.00749	Firmicutes	<i>Lachnospiraceae uncl.</i>	Healthy
OTU-430	2.48756	0.06635	0.00643	Firmicutes	<i>Faecalibacterium</i>	CRMO
OTU-1105	2.49471	0.06635	0.00630	Bacteroidetes	<i>Bacteroides</i>	
OTU-229	2.35108	0.06555	0.00936	Firmicutes	<i>Butyricicoccus</i>	No-Relapse
OTU-75	2.37365	0.06395	0.00881	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-567	2.18965	0.06395	0.01427	Firmicutes	<i>Ruminococcaceae uncl.</i>	No-Relapse
OTU-597	2.19843	0.06395	0.01396	Firmicutes	<i>Oscillibacter</i>	
OTU-348	2.24019	0.06315	0.01254	Firmicutes	<i>Clostridiales uncl.</i>	
OTU-687	2.04035	0.06155	0.02066	Firmicutes	<i>Lachnospiraceae uncl.</i>	Yes-Relapse
OTU-76	2.05627	0.06075	0.01988	Bacteroidetes	<i>Parabacteroides</i>	

	OTU-287	2.13969	0.06075	0.01619	Firmicutes	<i>Lachnospiraceae uncl.</i>	Healthy
	OTU-507	2.01873	0.05995	0.02176	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-571	2.04885	0.05995	0.02024	Firmicutes	<i>Faecalibacterium</i>	
	OTU-230	1.99144	0.05835	0.02322	Firmicutes	<i>Clostridiales uncl.</i>	Healthy
	OTU-523	1.89650	0.05835	0.02895	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-177	1.86642	0.05755	0.03099	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-282	1.83841	0.05755	0.03300	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-83	1.84998	0.05675	0.03216	Firmicutes	<i>Roseburia</i>	
	OTU-128	1.80700	0.05675	0.03538	Proteobacteria	<i>Sutterella</i>	
	OTU-869	1.82989	0.05675	0.03363	Firmicutes	<i>Faecalibacterium</i>	Yes-Relapse
	OTU-1040	1.83585	0.05675	0.03319	Firmicutes	<i>Roseburia</i>	
	OTU-1148	1.82735	0.05675	0.03382	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-1246	1.93719	0.05675	0.02636	Firmicutes	<i>Lachnospiraceae uncl.</i>	Yes-Relapse
	OTU-2020	1.90142	0.05675	0.02862	Bacteroidetes	<i>Bacteroides</i>	
	OTU-63	1.80395	0.05516	0.03562	Firmicutes	<i>Roseburia</i>	
	OTU-363	1.83123	0.05516	0.03353	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-103	1.70411	0.05436	0.04418	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-577	1.72573	0.05436	0.04220	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-802	1.71842	0.05436	0.04286	Firmicutes	<i>Roseburia</i>	Healthy
	OTU-844	1.72321	0.05436	0.04243	Bacteroidetes	<i>Bacteroides</i>	
	OTU-58	1.71698	0.05356	0.04299	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-196	1.69503	0.05356	0.04503	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-299	1.72137	0.05356	0.04259	Bacteroidetes	<i>Parabacteroides</i>	
	OTU-309	1.68142	0.05356	0.04634	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-410	1.68161	0.05356	0.04632	Firmicutes	<i>Faecalibacterium</i>	CRMO
	OTU-568	1.73073	0.05356	0.04175	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-451	1.65329	0.05276	0.04914	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-1226	1.67647	0.05276	0.04682	Firmicutes	<i>Lachnospiraceae uncl.</i>	Healthy
	OTU-234	1.67180	0.05196	0.04728	Firmicutes	<i>Ruminococcaceae uncl.</i>	
PageRank	OTU-14	4.21629	0.00304	0.00001	Firmicutes	<i>Faecalibacterium</i>	Healthy
	OTU-47	4.08482	0.00292	0.00002	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-191	3.63633	0.00282	0.00014	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-449	3.65752	0.00280	0.00013	Bacteroidetes	<i>Bacteroides</i>	
	OTU-26	3.66198	0.00279	0.00013	Firmicutes	<i>Oscillibacter</i>	

OTU-303	3.24508	0.00252	0.00059	Firmicutes	<i>Ruminococcaceae uncl.</i>	Yes- Relapse
OTU-392	3.13736	0.00246	0.00085	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-809	2.86710	0.00245	0.00207	Firmicutes	<i>Clostridium XVIII</i>	
OTU-113	2.91604	0.00239	0.00177	Bacteria uncl.	<i>Bacteria uncl.</i>	
OTU-329	2.80836	0.00230	0.00249	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-323	2.71000	0.00230	0.00336	Firmicutes	<i>Lachnospiraceae uncl.</i>	No- Relapse CRMO
OTU-502	2.66945	0.00227	0.00380	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-79	2.67419	0.00227	0.00375	Bacteria uncl.	<i>Bacteria uncl.</i>	
OTU-430	2.68529	0.00220	0.00362	Firmicutes	<i>Faecalibacterium</i>	
OTU-42	2.50421	0.00219	0.00614	Firmicutes	<i>Clostridiales uncl.</i>	
OTU-177	2.47282	0.00217	0.00670	Firmicutes	<i>Ruminococcaceae uncl.</i>	CRMO
OTU-506	2.48203	0.00215	0.00653	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-378	2.37904	0.00214	0.00868	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-282	2.38038	0.00213	0.00865	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-161	2.38768	0.00211	0.00848	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-254	2.38988	0.00210	0.00843	Firmicutes	<i>Clostridiales uncl.</i>	Healthy
OTU-326	2.38353	0.00208	0.00857	Bacteroidetes	<i>Bacteroides</i>	
OTU-735	2.19237	0.00206	0.01418	Firmicutes	<i>Faecalibacterium</i>	
OTU-1040	2.26152	0.00204	0.01186	Firmicutes	<i>Roseburia</i>	
OTU-80	2.23405	0.00203	0.01274	Firmicutes	<i>Clostridiales uncl.</i>	
OTU-410	2.28853	0.00203	0.01105	Firmicutes	<i>Faecalibacterium</i>	Yes- Relapse
OTU-398	2.13614	0.00201	0.01633	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-250	2.25121	0.00200	0.01219	Bacteroidetes	<i>Paraprevotella</i>	
OTU-234	2.31380	0.00200	0.01034	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-174	2.17828	0.00199	0.01469	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-687	2.10309	0.00199	0.01773	Firmicutes	<i>Lachnospiraceae uncl.</i>	Healthy
OTU-525	2.12970	0.00199	0.01660	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-1105	2.27409	0.00198	0.01148	Bacteroidetes	<i>Bacteroides</i>	
OTU-20	2.00570	0.00196	0.02244	Bacteroidetes	<i>Prevotella</i>	
OTU-411	2.14371	0.00193	0.01603	Bacteroidetes	<i>Bacteroides</i>	
OTU-887	2.06376	0.00191	0.01952	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
OTU-705	2.02547	0.00191	0.02141	Firmicutes	<i>Ruminococcaceae uncl.</i>	
OTU-1226	2.08280	0.00190	0.01863	Firmicutes	<i>Lachnospiraceae uncl.</i>	
OTU-408	1.98905	0.00189	0.02335	Firmicutes	<i>Faecalibacterium</i>	

	OTU-110	2.06746	0.00189	0.01935	Firmicutes	<i>Oscillibacter</i>	Healthy
	OTU-1148	1.94954	0.00187	0.02562	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-568	2.05107	0.00187	0.02013	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-508	1.90887	0.00187	0.02814	Firmicutes	<i>Clostridium XIVa</i>	
	OTU-241	1.94029	0.00185	0.02617	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-897	1.92779	0.00184	0.02694	Firmicutes	<i>Faecalibacterium</i>	
	OTU-451	1.93656	0.00184	0.02640	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-703	1.84853	0.00182	0.03226	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-802	1.87758	0.00182	0.03022	Firmicutes	<i>Roseburia</i>	
	OTU-1061	1.76844	0.00179	0.03849	Firmicutes	<i>Roseburia</i>	
	OTU-1048	1.85426	0.00179	0.03185	Firmicutes	<i>Faecalibacterium</i>	
	OTU-92	1.83576	0.00179	0.03320	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-1094	1.89046	0.00178	0.02935	Firmicutes	<i>Lachnospiraceae uncl.</i>	
	OTU-348	1.81841	0.00178	0.03450	Firmicutes	<i>Clostridiales uncl.</i>	
	OTU-577	1.77688	0.00176	0.03779	Bacteria uncl.	<i>Bacteria uncl.</i>	
	OTU-567	1.71011	0.00176	0.04362	Firmicutes	<i>Ruminococcaceae uncl.</i>	No-Relapse
	OTU-83	1.77139	0.00176	0.03825	Firmicutes	<i>Roseburia</i>	
	OTU-363	1.80330	0.00174	0.03567	Firmicutes	<i>Ruminococcaceae uncl.</i>	Healthy
	OTU-592	1.71526	0.00174	0.04315	Firmicutes	<i>Clostridiales Incertae Sedis XIII uncl.</i>	
	OTU-171	1.79512	0.00174	0.03632	Firmicutes	<i>Blautia</i>	
	OTU-1112	1.67891	0.00173	0.04658	Firmicutes	<i>Ruminococcaceae uncl.</i>	
	OTU-571	1.68691	0.00171	0.04581	Firmicutes	<i>Faecalibacterium</i>	
	OTU-781	1.70975	0.00169	0.04366	Firmicutes	<i>Oscillibacter</i>	
	OTU-63	1.67632	0.00169	0.04684	Firmicutes	<i>Roseburia</i>	
	OTU-894	1.64500	0.00169	0.04999	Firmicutes	<i>Oscillibacter</i>	
	OTU-442	1.65897	0.00167	0.04856	Firmicutes	<i>Ruminococcaceae uncl.</i>	

Table S5: Consensus genera associated to clinical measurements CRMO fecal and oral communities via Euclidean distance correlation and Spearman rank correlation (SCC-Spearman correlation coefficient). Potential HACEK-group members are highlighted in **bold** face and red highlights taxa with multiple associations. The *P*-value cutoff was set to $P \leq 0.010$.

	Physiology	ID Genus	Eucl. dist. corr.	<i>P</i> -value	<i>P</i> _{FDR}	SCC	N	Indicator
Fecal	BSR (1h)	<i>Coprobacter</i>	0.5872	0.0056	0.5192	0.3592	21	Healthy
	CRP (mg/l)	<i>Catabacter</i>	0.6255	0.0093	0.2964	0.3470	22	
	Hematocrit	<i>Catabacter</i>	0.6615	0.0024	0.2458	-0.4493	22	
	MCH (pg/cell)	<i>Clostridiaceae 1 uncl.</i>	0.6783	0.0011	0.1173	0.6076	21	
		<i>Clostridium sensu stricto</i>	0.6166	0.0047	0.2402	0.3467	21	
	Eosinophiles %	<i>Porphyromonas</i>	0.6248	0.0050	0.1012	0.4707	20	
		<i>Ezakiella</i>	0.6648	0.0007	0.0673	0.6152	20	
		<i>Murdochella</i>	0.7122	0.0022	0.0711	0.5220	20	
		<i>Negativicoccus</i>	0.6628	0.0028	0.0711	0.5220	20	
		<i>Campylobacter</i>	0.6836	0.0019	0.0711	0.5416	20	
Oral	Basophiles %	<i>Fusobacterium</i>	0.7217	0.0042	0.3968	0.7301	19	
		<i>Campylobacter</i>	0.6914	0.0078	0.3968	0.6207	19	
	Lymphocytes %	<i>Bilophila</i>	0.6179	0.0065	0.5447	-0.6184	20	Healthy
	LDH (U/l)	<i>Clostridium XIVa</i>	0.6845	0.0014	0.1418	0.3988	20	
	MCV (fl)	<i>Bacteria uncl.</i>	0.5945	0.0069	0.1801	0.3644	24	
	MCH (pg/cell)	<i>Propionibacteriaceae uncl.</i>	0.5790	0.0056	0.3767	0.2540	23	CRMO
		<i>Bacteria uncl.</i>	0.5695	0.0082	0.3767	0.4187	23	
	Eosinophiles %	<i>Flavobacteriales uncl.</i>	0.5739	0.0088	0.6066	0.4124	22	
	Basophiles %	<i>Burkholderiales uncl.</i>	0.5711	0.0100	0.2089	0.4153	21	
		<i>Kingella*</i>	0.6750	0.0064	0.2089	0.1029	21	CRMO
	Lymphocytes %	<i>Scardovia</i>	0.5404	0.0084	0.0557	0.4752	22	
		<i>Parabacteroides</i>	0.6074	0.0058	0.0557	0.4990	22	
		<i>Chitinophagaceae uncl.</i>	0.5033	0.0049	0.0557	0.4990	22	
		<i>Staphylococcus</i>	0.6144	0.0080	0.0557	0.2602	22	
		<i>Lactobacillus</i>	0.5116	0.0038	0.0557	0.4431	22	
		<i>Catonella</i>	0.6569	0.0005	0.0359	0.4972	22	
		<i>Lachnospiraceae uncl.</i>	0.6478	0.0012	0.0368	0.4495	22	
		<i>Ruminococcaceae uncl.</i>	0.5340	0.0069	0.0557	0.2374	22	
		<i>Dialister</i>	0.5619	0.0019	0.0428	0.3685	22	
		<i>Megasphaera</i>	0.5734	0.0085	0.0557	0.5004	22	
		<i>Fusobacterium</i>	0.6002	0.0080	0.0557	0.3266	22	
		<i>Erwinia</i>	0.5111	0.0051	0.0557	0.4990	22	
		<i>Alcanivorax</i>	0.5385	0.0036	0.0557	0.4990	22	
		<i>Pseudomonas</i>	0.5651	0.0008	0.0359	0.3843	22	
	Monocytes %	<i>Clostridiales uncl.</i>	0.5957	0.0031	0.1444	-0.3288	21	
		<i>Ottowia</i>	0.5248	0.0011	0.1049	0.5238	21	
	Calcium (mmol/l)	<i>Bacteria uncl.</i>	0.7727	0.0000	0.0028	0.7052	22	
		<i>Porphyromonas</i>	0.6257	0.0046	0.1408	0.3560	22	
		<i>Gemella</i>	0.6409	0.0023	0.1044	-0.4660	22	

Table S6: Species level OTUs from CRMO fecal communities associated to clinical measurements via Euclidean distance correlation and Spearman rank correlation (SCC-Spearman correlation coefficient). Indicators for healthy individuals are marked with +; # indicators for CRMO; ‡ indicators for relapse; † indicators for no relapse. HACEK-group members are highlighted in **bold** face and red indicates OTUs with multiple associations. The *P*-value cutoff was set to $P \leq 0.010$.

Physiology	ID	Eucl. dist. corr.	<i>P</i>	<i>P</i> _{FDR}	SCC	RDP 16 Classification
AP (U/I)	OTU-337	0.7428	0.0048	1.0000	-0.8398	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (85);
Basophiles %	OTU-6651	0.6835	0.0075	1.0000	0.5135	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-3008	0.8045	0.0015	1.0000	0.5456	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-1017	0.6862	0.0078	1.0000	0.5731	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
BSR (1h)	OTU-1497	0.6529	0.0013	0.2608	-0.6448	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-3565	0.5572	0.0043	0.4174	-0.6076	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (80); <i>Ruminococcaceae uncl.</i> (80);
	OTU-5198	0.5349	0.0085	0.5403	-0.5513	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-525	0.5549	0.0074	0.4929	0.2420	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-990	0.5643	0.0060	0.4426	0.2444	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (97); <i>Ruminococcaceae uncl.</i> (97);
	OTU-1090	0.5621	0.0061	0.4426	0.3240	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (67);
	OTU-354	0.6599	0.0003	0.2608	0.3544	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Coprobacter</i> (100);
	OTU-309	0.5708	0.0053	0.4295	0.3954	<i>Firmicutes</i> (100); <i>Clostridia</i> (99); <i>Clostridiales</i> (99); <i>Ruminococcaceae</i> (96); <i>Ruminococcaceae uncl.</i> (96);
	OTU-2658	0.5382	0.0083	0.5376	0.4168	<i>Bacteria uncl.</i> (100);
	OTU-878	0.5660	0.0049	0.4295	0.4250	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1740	0.5350	0.0091	0.5626	0.4465	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-812	0.5767	0.0032	0.3936	0.4579	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (98);
	OTU-9271	0.5240	0.0053	0.4295	0.4828	<i>Bacteria uncl.</i> (100);
	OTU-9282	0.5240	0.0054	0.4295	0.4828	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1046	0.5496	0.0039	0.4174	0.4848	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-4317	0.5558	0.0068	0.4630	0.4848	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (75); <i>Clostridiales uncl.</i> (75);
	OTU-2104	0.5198	0.0095	0.5742	0.4884	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-2426	0.5735	0.0041	0.4174	0.4955	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1106	0.5329	0.0098	0.5772	0.4991	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (89);
	OTU-1423	0.5970	0.0025	0.3291	0.5023	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1828	0.6107	0.0014	0.2608	0.5076	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (67);
	+OTU-187	0.5438	0.0055	0.4295	0.5078	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-215	0.5962	0.0036	0.4174	0.5078	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (96); <i>Ruminococcaceae uncl.</i> (96);
	OTU-2662	0.5766	0.0041	0.4174	0.5078	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-3085	0.5438	0.0051	0.4295	0.5078	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4062	0.5766	0.0042	0.4174	0.5078	<i>Firmicutes</i> (100); <i>Negativicutes</i> (100); <i>Selenomonadales</i> (100); <i>Acidaminococcaceae</i> (100); <i>Phascolarctobacterium</i> (100);
	OTU-755	0.6043	0.0011	0.2608	0.5097	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Coprobacter</i> (100);
	OTU-3536	0.6043	0.0013	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4316	0.6043	0.0013	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4365	0.6043	0.0012	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-5978	0.6043	0.0011	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Butyricicoccus</i> (100);
	OTU-6195	0.6043	0.0015	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-6224	0.6043	0.0013	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-6452	0.6043	0.0012	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-6505	0.6043	0.0012	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-7848	0.6043	0.0013	0.2608	0.5097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-1992	0.6145	0.0005	0.2608	0.5103	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);

	OTU-2529	0.5790	0.0015	0.2608	0.5103	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
	OTU-3212	0.6139	0.0019	0.2864	0.5103	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
	OTU-5781	0.6139	0.0020	0.2864	0.5103	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
	OTU-2147	0.5816	0.0060	0.4426	0.5470	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
	OTU-5688	0.5516	0.0068	0.4630	0.5513	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
	OTU-4168	0.6028	0.0021	0.2905	0.5738	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(75);
	OTU-4914	0.6028	0.0018	0.2864	0.5738	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Clostridium XIVa(67);
Calcium (mmol/l)	OTU-2502	0.6576	0.0022	1.0000	-0.6447	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(86);
	OTU-1594	0.6137	0.0059	1.0000	-0.6300	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(65);
	#OTU-2004	0.5892	0.0098	1.0000	-0.6212	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
	OTU-5308	0.6119	0.0054	1.0000	-0.5478	Firmicutes(100);Erysipelotrichia(67);Erysipelotrichales(67);Erysipelotrichaceae(67);Clostridium XVIII(67);
	#OTU-35	0.6691	0.0017	1.0000	-0.2171	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
	OTU-2804	0.6255	0.0068	1.0000	0.4927	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
	OTU-4491	0.6255	0.0068	1.0000	0.4927	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiaceae 1(67);Clostridiaceae 1 uncl.(67);
	OTU-6585	0.6551	0.0032	1.0000	0.5216	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
	OTU-455	0.5904	0.0018	1.0000	0.5535	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Prevotellaceae(100);Prevotella(97);
CRP (mg/l)	OTU-209	0.6377	0.0069	0.6756	0.1059	Bacteroidetes(100);Bacteroidia(95);Bacteroidales(95);Rikenellaceae(95);Alistipes(95);
	†OTU-697	0.6658	0.0051	0.6756	0.218	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(97);Ruminococcaceae uncl.(97);
	OTU-958	0.5923	0.0065	0.6756	0.2574	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
	OTU-2686	0.6645	0.0078	0.6756	0.2711	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
	OTU-1645	0.6059	0.0083	0.6756	0.3322	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales Incertae Sedis XIII(100);Clostridiales Incertae Sedis XIII uncl.(100);
	OTU-2356	0.6264	0.0086	0.6756	0.3479	Bacteroidetes(100);Bacteroidia(75);Bacteroidales(75);Rikenellaceae(75);Alistipes(75);
	OTU-912	0.6700	0.0036	0.6756	0.3707	Firmicutes(100);Clostridia(100);Clostridiales(100);Catabacteriaceae(98);Catabacter(98);
	OTU-1287	0.6678	0.0021	0.6756	0.4309	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
	OTU-2843	0.6577	0.0056	0.6756	0.4323	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(100);
	OTU-678	0.6133	0.0097	0.6756	0.4398	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(51);
	OTU-2337	0.7221	0.0009	0.6756	0.4516	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(88);
	OTU-5370	0.5481	0.0089	0.6756	0.4531	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Clostridium IV(100);
	OTU-7925	0.5481	0.0092	0.6756	0.4531	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
	OTU-550	0.5920	0.0058	0.6756	0.4560	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(99);Clostridiales uncl.(99);
	OTU-2085	0.6137	0.0081	0.6756	0.4560	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(70);
	OTU-3013	0.6112	0.0069	0.6756	0.4560	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Roseburia(84);
	OTU-6049	0.5974	0.0081	0.6756	0.4560	Bacteria uncl.(100);
	OTU-1424	0.5951	0.0076	0.6756	0.4591	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(53);
	OTU-4521	0.5614	0.0057	0.6756	0.4783	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Roseburia(100);
	OTU-8000	0.5614	0.0061	0.6756	0.4783	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Roseburia(100);
	OTU-2803	0.6214	0.0048	0.6756	0.4800	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
	OTU-837	0.8147	0.0048	0.6756	0.5017	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(96);Clostridiales uncl.(96);
	OTU-2275	0.8242	0.0043	0.6756	0.5034	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Porphyromonadaceae(100);Coprobacter(100);
	OTU-5605	0.8242	0.0041	0.6756	0.5034	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);
	OTU-7850	0.8242	0.0041	0.6756	0.5034	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
	OTU-7969	0.8242	0.0042	0.6756	0.5034	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
	OTU-8003	0.8242	0.0042	0.6756	0.5034	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Dorea(100);
	OTU-1500	0.7700	0.0006	0.6756	0.5040	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
	OTU-1627	0.5951	0.0096	0.6756	0.5914	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(79);
	OTU-153	0.6129	0.0060	0.6756	0.5991	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(63);
	OTU-221	0.5818	0.0089	0.6756	0.6018	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Fusicatenibacter(100);
	OTU-1093	0.7071	0.0039	0.6756	0.6840	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Roseburia(100);
Eosinophiles %	OTU-1274	0.6252	0.0079	0.8147	0.3389	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);

	OTU-1134	0.6999	0.0027	0.6801	0.3720	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Prevotellaceae</i> (100); <i>Prevotella</i> (100);
	OTU-1156	0.6306	0.0073	0.8147	0.4386	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-220	0.6634	0.0099	0.8147	0.4923	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Bacillales</i> (100); <i>Bacillales Incertae Sedis XI</i> (100); <i>Gemella</i> (100);
	OTU-3774	0.6634	0.0095	0.8147	0.4923	<i>Firmicutes</i> (100); <i>Firmicutes uncl.</i> (75); <i>Firmicutes uncl.</i> (75); <i>Firmicutes uncl.</i> (75); <i>Firmicutes uncl.</i> (75);
	OTU-8701	0.6634	0.0093	0.8147	0.4923	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1308	0.6756	0.0071	0.8147	0.5191	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Prevotellaceae</i> (100); <i>Prevotella</i> (100);
	OTU-2759	0.6971	0.0038	0.6801	0.5212	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-5319	0.6971	0.0042	0.6801	0.5212	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-8634	0.6971	0.0041	0.6801	0.5212	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-8700	0.6971	0.0045	0.6889	0.5212	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-780	0.6736	0.0026	0.6801	0.5220	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (100);
	+OTU-865	0.6911	0.0025	0.6801	0.5220	<i>Proteobacteria</i> (100); <i>Epsilonproteobacteria</i> (100); <i>Campylobacteriales</i> (100); <i>Campylobacteraceae</i> (100); <i>Campylobacter</i> (100);
	OTU-1247	0.7122	0.0022	0.6801	0.5220	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales Incertae Sedis XI</i> (100); <i>Murdochella</i> (100);
	OTU-4456	0.6641	0.0053	0.7571	0.5231	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-1668	0.6481	0.0028	0.6801	0.5254	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-686	0.7170	0.0016	0.6801	0.5357	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Blautia</i> (100);
	OTU-3565	0.7023	0.0040	0.6801	0.5596	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (80); <i>Ruminococcaceae uncl.</i> (80);
	OTU-860	0.6966	0.0038	0.6801	0.5622	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Haemophilus</i> (100);
	OTU-3219	0.6664	0.0035	0.6801	0.5864	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-4298	0.7564	0.0011	0.6801	0.5877	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-1602	0.6681	0.0040	0.6801	0.6022	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-1165	0.7284	0.0007	0.6801	0.6198	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-856	0.6741	0.0002	0.5959	0.6222	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales Incertae Sedis XI</i> (100); <i>Ezakiella</i> (100);
Erythrocytes (cells/pl)	OTU-3332	0.7921	0.0001	0.1814	-0.7097	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-1608	0.7049	0.0002	0.2246	-0.5966	<i>Bacteria uncl.</i> (79);
	OTU-1988	0.6885	0.0005	0.3310	-0.5952	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-1744	0.6708	0.0003	0.2246	-0.5767	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (93);
	OTU-2084	0.6324	0.0021	0.3310	-0.5654	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales Incertae Sedis XIII</i> (90); <i>Clostridiales Incertae Sedis XIII uncl.</i> (90);
	OTU-2304	0.5800	0.0058	0.4189	-0.5389	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-3190	0.5642	0.0096	0.5766	-0.5057	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Odoribacter</i> (100);
	OTU-550	0.5394	0.0013	0.3310	-0.4992	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (99); <i>Clostridiales uncl.</i> (99);
	OTU-2085	0.6121	0.0013	0.3310	-0.4992	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (70);
	OTU-3013	0.6242	0.0016	0.3310	-0.4992	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Roseburia</i> (84);
	OTU-6049	0.6346	0.0012	0.3310	-0.4992	<i>Bacteria uncl.</i> (100);
	OTU-2019	0.6221	0.0034	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-3830	0.6221	0.0036	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-4671	0.6221	0.0035	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-4732	0.6221	0.0037	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (67); <i>Clostridiales uncl.</i> (67);
	OTU-4800	0.6221	0.0034	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-5344	0.6221	0.0037	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-5492	0.6221	0.0035	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-5758	0.6221	0.0039	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-7644	0.6221	0.0038	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Anaerostipes</i> (100);
	OTU-7773	0.6221	0.0035	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-7790	0.6221	0.0036	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-7840	0.6221	0.0035	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-7980	0.6221	0.0037	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-7981	0.6221	0.0031	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcus</i> (100);
	OTU-7993	0.6221	0.0034	0.3310	-0.4986	<i>Bacteria uncl.</i> (100);
	OTU-9136	0.6221	0.0037	0.3310	-0.4986	<i>Bacteria uncl.</i> (100);

	OTU-9302	0.6221	0.0034	0.3310	-0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-3169	0.5929	0.0076	0.4822	-0.4969	<i>Bacteria</i> uncl.(61);
	OTU-894	0.6078	0.0017	0.3310	-0.4771	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (95); <i>Oscillibacter</i> (78);
	OTU-2482	0.5943	0.0027	0.3310	-0.4754	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(100);
	OTU-4333	0.5943	0.0027	0.3310	-0.4754	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Rikenellaceae</i> (100); <i>Alistipes</i> (100);
	OTU-5543	0.5943	0.0031	0.3310	-0.4754	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (67);
	OTU-2553	0.5748	0.0062	0.4192	-0.4516	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (58);
	OTU-750	0.5730	0.0054	0.4189	-0.4249	<i>Firmicutes</i> (100); <i>Clostridia</i> (97); <i>Clostridiales</i> (97); <i>Clostridiales</i> uncl.(97); <i>Clostridiales</i> uncl.(97);
	OTU-1363	0.5716	0.0084	0.5170	-0.3998	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Fusicatenibacter</i> (100);
	OTU-912	0.5811	0.0053	0.4189	-0.3902	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Catabacteriaceae</i> (98); <i>Catabacter</i> (98);
	OTU-190	0.5915	0.0061	0.4192	-0.3818	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(100);
	OTU-3515	0.5878	0.0057	0.4189	0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae</i> uncl.(100);
	OTU-3863	0.5878	0.0055	0.4189	0.4986	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Roseburia</i> (100);
	†OTU-2020	0.5751	0.0076	0.4822	0.5415	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	†OTU-2811	0.5759	0.0063	0.4192	0.5909	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae</i> uncl.(100);
	OTU-593	0.6158	0.0040	0.3310	0.6426	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
Hb (g/dl)	OTU-678	0.6650	0.0021	0.7154	-0.6462	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (51);
	OTU-2843	0.6613	0.0015	0.7154	-0.5540	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-2969	0.5654	0.0079	0.7154	-0.5209	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-688	0.6598	0.0039	0.7154	-0.5093	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales</i> Incertae Sedis XIII(97); <i>Clostridiales</i> Incertae Sedis XIII uncl.(94);
	OTU-2084	0.6530	0.0029	0.7154	-0.5042	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales</i> Incertae Sedis XIII(90); <i>Clostridiales</i> Incertae Sedis XIII uncl.(90);
	OTU-1327	0.6881	0.0044	0.7154	-0.5040	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-2553	0.7107	0.0006	0.7154	-0.4997	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (58);
	OTU-2672	0.6884	0.0018	0.7154	-0.4991	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(72);
	OTU-3785	0.6884	0.0015	0.7154	-0.4991	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae</i> uncl.(100);
	OTU-6395	0.6884	0.0016	0.7154	-0.4991	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae</i> uncl.(100);
	OTU-3324	0.7023	0.0044	0.7154	-0.4759	<i>Bacteroidetes</i> (100); <i>Bacteroidetes</i> uncl.(61); <i>Bacteroidetes</i> uncl.(61); <i>Bacteroidetes</i> uncl.(61); <i>Bacteroidetes</i> uncl.(61);
	OTU-4886	0.7139	0.0036	0.7154	-0.4759	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(100);
	OTU-1802	0.6737	0.0062	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(100);
	OTU-3680	0.6737	0.0065	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (75); <i>Ruminococcaceae</i> uncl.(75);
	OTU-3955	0.6737	0.0068	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-4568	0.6737	0.0061	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(67);
	OTU-6824	0.6737	0.0065	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Erysipelotrichia</i> (100); <i>Erysipelotrichales</i> (100); <i>Erysipelotrichaceae</i> (100); <i>Holdemania</i> (100);
	OTU-7833	0.6737	0.0066	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-7844	0.6737	0.0061	0.7154	-0.4742	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(100);
	OTU-1457	0.6162	0.0050	0.7154	-0.4543	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-1500	0.6629	0.0053	0.7154	-0.4521	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae</i> uncl.(100);
	OTU-1744	0.6754	0.0038	0.7154	-0.448	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (93);
	OTU-1694	0.6106	0.0059	0.7154	-0.4379	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae</i> uncl.(100);
	OTU-750	0.6690	0.0072	0.7154	-0.4377	<i>Firmicutes</i> (100); <i>Clostridia</i> (97); <i>Clostridiales</i> (97); <i>Clostridiales</i> uncl.(97); <i>Clostridiales</i> uncl.(97);
	OTU-874	0.6301	0.0091	0.7154	-0.3926	<i>Bacteria</i> uncl.(84);
	†OTU-697	0.6349	0.0034	0.7154	-0.3553	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (97); <i>Ruminococcaceae</i> uncl.(97);
	OTU-948	0.6244	0.0095	0.7154	-0.1391	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-744	0.6653	0.0018	0.7154	0.0234	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
Hematocrit	OTU-134	0.5994	0.0098	0.5633	-0.6347	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (92);
	OTU-3332	0.5979	0.0038	0.5633	-0.6137	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-678	0.5819	0.0063	0.5633	-0.5997	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (51);
	OTU-2969	0.5817	0.0041	0.5633	-0.5635	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);

	OTU-1744	0.6775	0.0002	0.5633	-0.5629	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (93);
	OTU-1457	0.6107	0.0023	0.5633	-0.5607	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	†OTU-697	0.6016	0.0041	0.5633	-0.5519	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (97); <i>Ruminococcaceae uncl.</i> (97);
	OTU-912	0.6832	0.0006	0.5633	-0.5391	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Catabacteriaceae</i> (98); <i>Catabacter</i> (98);
	OTU-2553	0.6620	0.0020	0.5633	-0.5046	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (58);
	OTU-2672	0.5966	0.0065	0.5633	-0.504	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (72);
	OTU-3785	0.5966	0.0061	0.5633	-0.504	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-6395	0.5966	0.0063	0.5633	-0.504	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-1608	0.6127	0.0039	0.5633	-0.5026	<i>Bacteria uncl.</i> (79);
	OTU-750	0.6572	0.0034	0.5633	-0.5022	<i>Firmicutes</i> (100); <i>Clostridia</i> (97); <i>Clostridiales</i> (97); <i>Clostridiales uncl.</i> (97); <i>Clostridiales uncl.</i> (97);
	OTU-1327	0.6512	0.0030	0.5633	-0.5022	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-894	0.6621	0.0014	0.5633	-0.5002	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (95); <i>Oscillibacter</i> (78);
	OTU-2084	0.5956	0.0061	0.5633	-0.4466	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales Incertae Sedis XIII</i> (90); <i>Clostridiales Incertae Sedis XIII uncl.</i> (90);
	OTU-550	0.6329	0.0062	0.5633	-0.4325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (99); <i>Clostridiales uncl.</i> (99);
	OTU-1500	0.6301	0.0066	0.5633	-0.4325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-2085	0.6381	0.0082	0.5633	-0.4325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (70);
	OTU-3013	0.6301	0.0061	0.5633	-0.4325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Roseburia</i> (84);
	OTU-190	0.6075	0.0034	0.5633	-0.4325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-2695	0.6276	0.0060	0.5633	-0.4222	<i>Bacteria uncl.</i> (100);
	OTU-3373	0.6089	0.0069	0.5633	-0.4222	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Blautia</i> (61);
	OTU-699	0.6389	0.0098	0.5633	-0.3683	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-2981	0.5442	0.0081	0.5633	0.5278	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Roseburia</i> (100);
	‡OTU-2811	0.6577	0.0013	0.5633	0.6031	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-593	0.6321	0.0022	0.5633	0.6765	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides uncl.</i> (100);
	OTU-2	0.6605	0.0012	0.5633	0.6848	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
LDH (U/l)	OTU-192	0.5963	0.0072	0.9512	-0.0137	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Clostridium XIVa</i> (98);
	OTU-1713	0.6035	0.0086	0.9512	0.2953	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-5965	0.6358	0.0088	0.9512	0.4917	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-6787	0.6358	0.0084	0.9512	0.4917	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-7580	0.6358	0.0095	0.9512	0.4917	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Clostridium XIVa</i> (100);
	OTU-1890	0.5921	0.0074	0.9512	0.5185	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Blautia</i> (91);
	OTU-2392	0.6558	0.0031	0.9512	0.5207	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-5136	0.6558	0.0028	0.9512	0.5207	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-5487	0.6558	0.0030	0.9512	0.5207	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-9281	0.6558	0.0030	0.9512	0.5207	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
Lymphocytes %	OTU-3005	0.6576	0.0025	0.6633	-0.6354	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (84);
	OTU-1969	0.6961	0.0020	0.6633	-0.6211	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (90);
	OTU-2658	0.6987	0.0007	0.6633	-0.6211	<i>Bacteria uncl.</i> (100);
	OTU-2998	0.7037	0.0010	0.6633	-0.6211	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (84);
	+OTU-328	0.6195	0.0072	0.7175	-0.6205	<i>Proteobacteria</i> (100); <i>Deltaproteobacteria</i> (100); <i>Desulfobivibrionales</i> (100); <i>Desulfobivibrionaceae</i> (100); <i>Bilophila</i> (100);
	OTU-3790	0.6821	0.0011	0.6633	-0.6192	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-884	0.6691	0.0049	0.7175	-0.5781	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Flavonifractor</i> (96);
	OTU-1238	0.6113	0.0074	0.7175	-0.5772	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (96);
	OTU-1775	0.5924	0.0025	0.6633	-0.521	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (75);
	OTU-4176	0.6389	0.0058	0.7175	-0.521	<i>Firmicutes</i> (75); <i>Firmicutes uncl.</i> (75); <i>Firmicutes uncl.</i> (75); <i>Firmicutes uncl.</i> (75); <i>Firmicutes uncl.</i> (75);
	OTU-1606	0.6337	0.0088	0.7175	-0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (79);
	OTU-2126	0.6337	0.0089	0.7175	-0.5203	<i>Firmicutes</i> (89); <i>Firmicutes uncl.</i> (56); <i>Firmicutes uncl.</i> (56); <i>Firmicutes uncl.</i> (56); <i>Firmicutes uncl.</i> (56);
	OTU-3889	0.6337	0.0092	0.7175	-0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (75);
	OTU-5969	0.6337	0.0087	0.7175	-0.5203	<i>Proteobacteria</i> (67); <i>Gammaproteobacteria</i> (67); <i>Pasteurellales</i> (67); <i>Pasteurellaceae</i> (67); <i>Pasteurellaceae uncl.</i> (67);

	OTU-6204	0.6337	0.0083	0.7175	-0.5203	<i>Bacteria uncl.(100);</i>
	OTU-7133	0.6337	0.0076	0.7175	-0.5203	<i>Bacteria uncl.(100);</i>
	OTU-7762	0.6337	0.0087	0.7175	-0.5203	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(100);Clostridiales uncl.(100);</i>
	OTU-7792	0.6337	0.0089	0.7175	-0.5203	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(100);</i>
	OTU-712	0.6310	0.0094	0.7175	-0.5181	<i>Firmicutes(94);Clostridia(58);Clostridia uncl.(58);Clostridia uncl.(58);Clostridia uncl.(58);</i>
	OTU-2529	0.5896	0.0088	0.7175	-0.4936	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	OTU-345	0.6260	0.0089	0.7175	-0.4523	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(83);</i>
	OTU-442	0.6256	0.0085	0.7175	-0.402	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(99);Ruminococcaceae uncl.(98);</i>
	OTU-106	0.6464	0.0043	0.7175	0.2466	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);</i>
	OTU-6435	0.7083	0.0039	0.7175	0.5203	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	OTU-1187	0.5968	0.0026	0.6633	0.521	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(96);Clostridium XIVb(92);</i>
	OTU-4614	0.6964	0.0019	0.6633	0.521	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
	OTU-2266	0.6708	0.0014	0.6633	0.5751	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	OTU-1278	0.7310	0.0003	0.6633	0.5806	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Clostridium XIVa(100);</i>
MCH (pg/cell)	OTU-1327	0.6158	0.0017	0.6659	-0.5752	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(100);</i>
	OTU-1256	0.5586	0.0095	0.6991	-0.5638	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(96);Ruminococcaceae uncl.(96);</i>
	OTU-2843	0.5549	0.0086	0.6991	-0.5515	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(100);</i>
	OTU-1887	0.5855	0.0062	0.6659	-0.5482	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Eisenbergiella(100);</i>
	OTU-688	0.6008	0.0033	0.6659	-0.546	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales Incertae Sedis XIII(97);Clostridiales Incertae Sedis XIII uncl.(94);</i>
	OTU-678	0.5777	0.0077	0.6659	-0.5111	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(51);</i>
	OTU-2553	0.6006	0.0017	0.6659	-0.4977	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(58);</i>
	OTU-3324	0.5902	0.0034	0.6659	-0.4977	<i>Bacteroidetes(100);Bacteroidetes uncl.(61);Bacteroidetes uncl.(61);Bacteroidetes uncl.(61);Bacteroidetes uncl.(61);</i>
	OTU-4886	0.6022	0.0027	0.6659	-0.4977	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	OTU-1802	0.5629	0.0062	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	OTU-2672	0.5629	0.0061	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(72);</i>
	OTU-3680	0.5629	0.0063	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(75);Ruminococcaceae uncl.(75);</i>
	OTU-3785	0.5629	0.0061	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
	OTU-3955	0.5629	0.0059	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);</i>
	OTU-4568	0.5629	0.0062	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(67);</i>
	OTU-6395	0.5629	0.0059	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
	OTU-6824	0.5629	0.0062	0.6659	-0.4964	<i>Firmicutes(100);Erysipelotrichia(100);Erysipelotrichales(100);Erysipelotrichaceae(100);Holdemania(100);</i>
	OTU-7833	0.5629	0.0070	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);</i>
	OTU-7844	0.5629	0.0064	0.6659	-0.4964	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	OTU-804	0.5660	0.0071	0.6659	-0.4594	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);</i>
	OTU-874	0.5680	0.0061	0.6659	-0.4594	<i>Bacteria uncl.(84);</i>
	OTU-5530	0.5571	0.0081	0.6770	-0.4594	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(67);Clostridiales uncl.(67);</i>
	OTU-1500	0.5684	0.0075	0.6659	-0.4339	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);</i>
	+OTU-123	0.5952	0.0075	0.6659	0.3283	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(90);</i>
	OTU-38	0.5804	0.0077	0.6659	0.5023	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(82);</i>
	OTU-3120	0.5723	0.0042	0.6659	0.5098	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
	OTU-4433	0.5723	0.0038	0.6659	0.5098	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);</i>
	OTU-5690	0.5723	0.0042	0.6659	0.5098	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
	OTU-6598	0.5723	0.0042	0.6659	0.5098	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
	OTU-7642	0.5723	0.0042	0.6659	0.5098	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Oscillibacter(100);</i>
	OTU-5292	0.5622	0.0074	0.6659	0.529	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(67);</i>
	OTU-1606	0.5728	0.0048	0.6659	0.5515	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(79);</i>
	OTU-987	0.6692	0.0006	0.6659	0.6035	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);</i>
MCHC (g/dl)	OTU-1887	0.6636	0.0020	0.5491	-0.6021	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Eisenbergiella(100);</i>
	OTU-829	0.6639	0.0013	0.5491	-0.5915	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);</i>

OTU-397	0.5185	0.0053	0.5491	-0.5172	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(85);
OTU-688	0.5994	0.0045	0.5491	-0.5096	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales Incertae Sedis XIII(97);Clostridiales Incertae Sedis XIII uncl.(94);
OTU-80	0.4501	0.0049	0.5491	0.317	Firmicutes(99);Clostridia(98);Clostridiales(98);Clostridiales uncl.(98);Clostridiales uncl.(98);
OTU-243	0.5486	0.0088	0.6298	0.3739	Bacteria uncl.(94);
OTU-1743	0.5550	0.0077	0.6251	0.4596	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-1702	0.5173	0.0058	0.5519	0.494	Firmicutes(54);Clostridia(54);Clostridia uncl.(54);Clostridia uncl.(54);Clostridia uncl.(54);
OTU-2111	0.5445	0.0089	0.6298	0.494	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(100);Clostridiales uncl.(100);
OTU-2338	0.5173	0.0055	0.5491	0.494	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(88);
OTU-3665	0.5445	0.0095	0.6298	0.494	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-1344	0.5645	0.0043	0.5491	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-2333	0.5645	0.0029	0.5491	0.4966	Firmicutes(75);Clostridia(75);Clostridiales(75);Clostridiales uncl.(63);Clostridiales uncl.(63);
OTU-2423	0.5645	0.0030	0.5491	0.4966	Bacteria uncl.(75);
OTU-4557	0.5645	0.0030	0.5491	0.4966	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
OTU-5354	0.5645	0.0029	0.5491	0.4966	Bacteria uncl.(100);
OTU-5364	0.5645	0.0064	0.5519	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-6037	0.5645	0.0064	0.5519	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-6053	0.5645	0.0030	0.5491	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(67);
OTU-7634	0.5645	0.0062	0.5519	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-7793	0.5645	0.0031	0.5491	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-7796	0.5645	0.0029	0.5491	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-8614	0.5645	0.0031	0.5491	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-8639	0.5645	0.0033	0.5491	0.4966	Bacteria uncl.(100);
OTU-8693	0.5645	0.0032	0.5491	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(100);Clostridiales uncl.(100);
OTU-8784	0.5645	0.0067	0.5591	0.4966	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
OTU-1610	0.5208	0.0089	0.6298	0.4974	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(100);Clostridiales uncl.(100);
OTU-1670	0.5433	0.0034	0.5491	0.4979	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(93);Clostridiales uncl.(93);
OTU-1956	0.5066	0.0039	0.5491	0.4979	Firmicutes(91);Clostridia(91);Clostridiales(91);Clostridiales uncl.(82);Clostridiales uncl.(82);
OTU-1957	0.5542	0.0045	0.5491	0.4979	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
OTU-2219	0.5542	0.0046	0.5491	0.4979	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-3348	0.5542	0.0043	0.5491	0.4979	Bacteria uncl.(80);
OTU-3811	0.5542	0.0049	0.5491	0.4979	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Faecalibacterium(100);
OTU-1846	0.5891	0.0095	0.6298	0.5192	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-561	0.5770	0.0016	0.5491	0.5674	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
OTU-2779	0.6138	0.0053	0.5491	0.5679	Firmicutes(100);Negativicutes(100);Selenomonadales(100);Veillonellaceae(100);Dialister(100);
OTU-1045	0.4822	0.0007	0.5491	0.5775	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
OTU-1282	0.7216	0.0003	0.5052	-0.5908	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(80);
OTU-1109	0.7611	0.0012	0.9998	-0.5027	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);
OTU-3426	0.7736	0.0019	0.9998	-0.5027	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);
OTU-2772	0.7480	0.0031	0.9998	-0.5021	Firmicutes(100);Clostridia(100);Clostridiales(100);Ruminococcaceae(100);Ruminococcaceae uncl.(100);
OTU-2480	0.6599	0.0062	0.9998	-0.5007	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-1163	0.7352	0.0004	0.5052	-0.4958	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-1838	0.6847	0.0050	0.9998	-0.4668	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
OTU-3677	0.5915	0.0048	0.9998	-0.4645	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Rikenellaceae(100);Alistipes(100);
OTU-6489	0.5915	0.0048	0.9998	-0.4645	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-6493	0.5915	0.0044	0.9998	-0.4645	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Lachnospiraceae uncl.(100);
OTU-1081	0.6796	0.0054	0.9998	-0.4324	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);
OTU-2313	0.6459	0.0040	0.9998	-0.3724	Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Bacteroidaceae(100);Bacteroides(100);
OTU-269	0.6070	0.0083	0.9998	0.4032	Firmicutes(100);Clostridia(100);Clostridiales(100);Lachnospiraceae(100);Roseburia(100);
OTU-2722	0.6289	0.0064	0.9998	0.598	Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(72);Clostridiales uncl.(72);

Monocytes %	OTU-1887	0.6189	0.0065	0.9484	-0.5409	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Eisenbergiella</i> (100);
	OTU-1109	0.5468	0.0096	0.9484	-0.5333	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-3426	0.5840	0.0050	0.9484	-0.5333	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-2772	0.5998	0.0047	0.9484	-0.5325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-994	0.5316	0.0099	0.9484	0.4159	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (60); <i>Ruminococcaceae uncl.</i> (60);
	OTU-2045	0.5239	0.0090	0.9484	0.4445	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Odoribacter</i> (100);
	OTU-2940	0.5315	0.0094	0.9484	0.4445	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Rikenellaceae</i> (100); <i>Alistipes</i> (100);
	OTU-1225	0.5667	0.0090	0.9484	0.4544	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-3120	0.5802	0.0084	0.9484	0.5325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-4433	0.5802	0.0090	0.9484	0.5325	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-5690	0.5802	0.0091	0.9484	0.5325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-6598	0.5802	0.0088	0.9484	0.5325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-7642	0.5802	0.0092	0.9484	0.5325	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-1727	0.6427	0.0046	0.9484	0.58	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-1010	0.6672	0.0024	0.9484	0.6057	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (97);
	OTU-1497	0.6302	0.0048	0.9484	0.6525	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
Neutrophils %	OTU-392	0.6465	0.0029	0.3174	0.2582	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (80); <i>Ruminococcaceae uncl.</i> (70);
	OTU-1090	0.5868	0.0081	0.4875	0.2596	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (67);
	OTU-1828	0.5842	0.0086	0.5076	0.2942	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (67);
	OTU-525	0.6360	0.0027	0.3174	0.3428	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1740	0.5446	0.0077	0.4781	0.378	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-3137	0.5446	0.0073	0.4781	0.378	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-4317	0.5446	0.0069	0.4781	0.378	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (75); <i>Clostridiales uncl.</i> (75);
	OTU-4470	0.5446	0.0071	0.4781	0.378	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-5250	0.5446	0.0075	0.4781	0.378	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Prevotellaceae</i> (100); <i>Prevotella</i> (100);
	OTU-812	0.5791	0.0089	0.5142	0.3817	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (98);
	OTU-309	0.6430	0.0026	0.3174	0.4162	<i>Firmicutes</i> (100); <i>Clostridia</i> (99); <i>Clostridiales</i> (99); <i>Ruminococcaceae</i> (96); <i>Ruminococcaceae uncl.</i> (96);
	OTU-393	0.6042	0.0074	0.4781	0.4316	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1775	0.5578	0.0095	0.5298	0.4387	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (75);
	OTU-2131	0.5809	0.0096	0.5298	0.4445	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (67);
	OTU-1126	0.5911	0.0076	0.4781	0.4538	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (76);
	OTU-755	0.6278	0.0029	0.3174	0.4903	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Coprobacter</i> (100);
	+OTU-187	0.5940	0.0072	0.4781	0.5181	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-215	0.6500	0.0033	0.3441	0.5181	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (96); <i>Ruminococcaceae uncl.</i> (96);
	OTU-2662	0.6292	0.0042	0.3940	0.5181	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-3085	0.5940	0.0069	0.4781	0.5181	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4062	0.6292	0.0035	0.3508	0.5181	<i>Firmicutes</i> (100); <i>Negativicutes</i> (100); <i>Selenomonadales</i> (100); <i>Acidaminococcaceae</i> (100); <i>Phascolarctobacterium</i> (100);
	OTU-3536	0.6583	0.0013	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4168	0.6583	0.0014	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (75);
	OTU-4316	0.6583	0.0014	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4914	0.6583	0.0015	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Clostridium XIVa</i> (67);
	OTU-5978	0.6583	0.0015	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Butyrivibrio</i> (100);
	OTU-6195	0.6583	0.0015	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales uncl.</i> (100); <i>Clostridiales uncl.</i> (100);
	OTU-6224	0.6583	0.0016	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-6452	0.6583	0.0014	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-6505	0.6583	0.0015	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-7848	0.6583	0.0016	0.2781	0.5203	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-1992	0.6674	0.0015	0.2781	0.521	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-2529	0.6229	0.0010	0.2781	0.521	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-3212	0.6651	0.0022	0.3174	0.521	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);

	OTU-5781	0.6651	0.0022	0.3174	0.521	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-2103	0.6112	0.0044	0.3940	0.5221	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (67); <i>Ruminococcaceae uncl.</i> (67);
	OTU-6085	0.6112	0.0044	0.3940	0.5221	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (100);
	OTU-1238	0.6121	0.0062	0.4781	0.5485	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (96);
	OTU-990	0.6727	0.0013	0.2781	0.5629	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (97); <i>Ruminococcaceae uncl.</i> (97);
	OTU-1969	0.6024	0.0052	0.4355	0.5666	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (90);
	OTU-2084	0.6035	0.0056	0.4567	0.5696	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Clostridiales Incertae Sedis XIII</i> (90); <i>Clostridiales Incertae Sedis XIII uncl.</i> (90);
	OTU-3790	0.6288	0.0021	0.3174	0.5707	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-3005	0.6449	0.0024	0.3174	0.5739	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Oscillibacter</i> (84);
	OTU-2658	0.6602	0.0012	0.2781	0.5751	<i>Bacteria uncl.</i> (100);
	OTU-2998	0.6585	0.0013	0.2781	0.5751	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (84);
	OTU-878	0.6470	0.0028	0.3174	0.5757	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-2108	0.6026	0.0047	0.4068	0.5872	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
Thrombocytes (cells/nl)	OTU-744	0.6657	0.0006	0.7643	-0.6723	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-9	0.6022	0.0060	0.9600	-0.5912	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-2686	0.5891	0.0020	0.8852	-0.5908	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Rikenellaceae</i> (100); <i>Alistipes</i> (100);
	OTU-1000	0.5855	0.0067	0.9600	-0.5541	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-2304	0.5983	0.0046	0.9600	-0.5201	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-4411	0.5542	0.0085	0.9600	-0.5115	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-4067	0.4917	0.0083	0.9600	-0.499	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Rikenellaceae</i> (100); <i>Alistipes</i> (100);
	OTU-8049	0.4960	0.0065	0.9600	-0.4984	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (100);
	OTU-57	0.5789	0.0074	0.9600	-0.4272	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-900	0.5691	0.0036	0.9600	0.0939	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Bacteroidaceae</i> (100); <i>Bacteroides</i> (100);
	OTU-1729	0.5697	0.0049	0.9600	0.4394	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-244	0.4366	0.0040	0.9600	0.4607	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (99); <i>Ruminococcaceae uncl.</i> (99);
	OTU-5311	0.4974	0.0062	0.9600	0.4752	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	OTU-1725	0.5847	0.0017	0.8757	0.4984	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	‡OTU-1104	0.6266	0.0012	0.8757	0.5312	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Faecalibacterium</i> (100);
	OTU-2586	0.5571	0.0087	0.9600	0.5533	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (86); <i>Ruminococcaceae uncl.</i> (86);
	‡OTU-1636	0.5951	0.0002	0.5182	0.5964	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Ruminococcaceae</i> (100); <i>Ruminococcaceae uncl.</i> (100);
	‡OTU-2082	0.6435	0.0015	0.8757	0.6377	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Lachnospiraceae uncl.</i> (70);

+ indicators for healthy individuals; # indicators for CRMO; ‡ indicators for relapse; † indicators for no relapse

Table S7: Species level OTUs from CRMO oral communities associated to clinical measurements via Euclidean distance correlation and Spearman rank correlation (SCC-Spearman correlation coefficient). Indicators for healthy individuals are marked with +; # indicators for CRMO; ‡ indicators for relapse; † indicators for no relapse. HACEK-group members are highlighted in **bold** face and red indicates OTUs with multiple associations. The *P*-value cutoff was set to $P \leq 0.010$.

Physiology	ID	Eucl. dist. corr.	<i>P</i>	<i>P</i> _{FDR}	SCC	RDP 16 Classification
AP (U/l)	OTU-284	0.6939	0.0037	1.0000	0.5298	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-1053	0.6829	0.0018	1.0000	0.6276	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (100);
Basophiles %	OTU-353	0.6986	0.0045	0.7160	0.1635	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Corynebacteriaceae</i> (94); <i>Corynebacterium</i> (93);
	OTU-1506	0.6228	0.0067	0.7160	0.2082	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (94);
	OTU-166	0.6063	0.0086	0.7160	0.3167	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Kingella</i> (100);
	OTU-2118	0.6581	0.0087	0.7160	0.3800	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Prevotellaceae</i> (100); <i>Prevotella</i> (100);
	OTU-122	0.6584	0.0093	0.7160	0.3934	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Lactococcus</i> (100);
	OTU-400	0.7687	0.0019	0.7160	0.4327	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Kingella</i> (100);
	OTU-5017	0.6775	0.0051	0.7160	0.4963	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Corynebacteriaceae</i> (100); <i>Corynebacterium</i> (100);
BSR (1h)	OTU-3017	0.5305	0.0086	0.9593	-0.5461	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-88	0.5897	0.0061	0.9593	-0.4354	<i>Fusobacteria</i> (99); <i>Fusobacteriia</i> (99); <i>Fusobacteriales</i> (99); <i>Leptotrichiaceae</i> (97); <i>Leptotrichiaceae uncl.</i> (95);
	OTU-97	0.5616	0.0032	0.9593	0.3466	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-2175	0.5253	0.0093	0.9593	0.4181	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-4203	0.5202	0.0050	0.9593	0.4742	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (100);
	OTU-423	0.5979	0.0008	0.9186	0.5335	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-5263	0.5460	0.0058	0.9593	0.5436	<i>Fusobacteria</i> (100); <i>Fusobacteriia</i> (100); <i>Fusobacteriales</i> (100); <i>Leptotrichiaceae</i> (100); <i>Leptotrichia</i> (100);
Calcium (mmol/l)	OTU-848	0.5875	0.0071	0.3377	-0.6101	<i>Bacteroidetes</i> (100); <i>Bacteroidetes uncl.</i> (66); <i>Bacteroidetes uncl.</i> (66); <i>Bacteroidetes uncl.</i> (66);
	OTU-7	0.6467	0.0022	0.2706	-0.4745	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Bacillales</i> (100); <i>Bacillales_Incertae_Sedis_XI</i> (100); <i>Gemella</i> (100);
	OTU-206	0.6095	0.0044	0.2706	-0.4421	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-62	0.6103	0.0041	0.2706	0.1568	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (100);
	OTU-518	0.6215	0.0050	0.2706	0.2987	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-811	0.6407	0.0037	0.2706	0.3829	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (100);
	OTU-2222	0.5992	0.0074	0.3377	0.3864	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (78);
	OTU-2634	0.5831	0.0086	0.3542	0.4051	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (100);
	OTU-281	0.6556	0.0010	0.2048	0.4658	<i>Fusobacteria</i> (100); <i>Fusobacteriia</i> (100); <i>Fusobacteriales</i> (100); <i>Leptotrichiaceae</i> (100); <i>Leptotrichia</i> (100);
	OTU-4561	0.5913	0.0080	0.3421	0.4721	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Betaproteobacteria uncl.</i> (100); <i>Betaproteobacteria uncl.</i> (100); <i>Betaproteobacteria uncl.</i> (100);
	OTU-5093	0.5913	0.0080	0.3421	0.4721	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Aggregatibacter</i> (67);
	OTU-4022	0.6248	0.0044	0.2706	0.4749	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (75);
	OTU-4767	0.6248	0.0046	0.2706	0.4749	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Actinomycetales uncl.</i> (100); <i>Actinomycetales uncl.</i> (100);
	OTU-6679	0.6248	0.0048	0.2706	0.4749	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Neisseriaceae uncl.</i> (100);
	OTU-2701	0.6265	0.0040	0.2706	0.4766	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (100);
	OTU-2857	0.6404	0.0026	0.2706	0.4766	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (100);
	OTU-4664	0.6514	0.0042	0.2706	0.4766	<i>Bacteroidetes</i> (100); <i>Bacteroidia</i> (100); <i>Bacteroidales</i> (100); <i>Porphyromonadaceae</i> (100); <i>Porphyromonas</i> (67);
	OTU-5130	0.6514	0.0040	0.2706	0.4766	<i>Bacteria uncl.</i> (100); <i>Bacteria uncl.</i> (100); <i>Bacteria uncl.</i> (100); <i>Bacteria uncl.</i> (100); <i>Bacteria uncl.</i> (100);
	OTU-2924	0.6534	0.0004	0.1193	0.4999	<i>Bacteroidetes</i> (100); <i>Bacteroidetes uncl.</i> (100); <i>Bacteroidetes uncl.</i> (100); <i>Bacteroidetes uncl.</i> (100); <i>Bacteroidetes uncl.</i> (100);
	OTU-3625	0.6534	0.0003	0.1193	0.4999	<i>Fusobacteria</i> (100); <i>Fusobacteriia</i> (100); <i>Fusobacteriales</i> (100); <i>Fusobacteriaceae</i> (100); <i>Fusobacterium</i> (100);
	OTU-6818	0.6534	0.0005	0.1193	0.4999	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-7985	0.6534	0.0004	0.1193	0.4999	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Neisseriaceae uncl.</i> (100);
	OTU-1358	0.6421	0.0022	0.2706	0.5023	<i>Bacteroidetes</i> (100); <i>Flavobacteriia</i> (100); <i>Flavobacteriales</i> (100); <i>Flavobacteriaceae</i> (100); <i>Capnocytophaga</i> (100);
	OTU-1705	0.6357	0.0049	0.2706	0.5193	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Actinomycetales uncl.</i> (100); <i>Actinomycetales uncl.</i> (100);

	OTU-541	0.6053	0.0058	0.3024	0.5217	<i>Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);</i>
	OTU-2359	0.5737	0.0068	0.3365	0.5589	<i>Fusobacteria(88);Fusobacteriia(88);Fusobacteriales(88);Leptotrichiaceae(88);Leptotrichiaceae uncl.(88);</i>
	OTU-2852	0.7067	0.0004	0.1193	0.5669	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Porphyromonadaceae(100);Porphyromonas(100);</i>
	OTU-431	0.6422	0.0023	0.2706	0.5670	<i>SR1(100);SR1 uncl.(100);SR1 uncl.(100);SR1 uncl.(100);SR1 uncl.(100);</i>
	OTU-2727	0.6194	0.0030	0.2706	0.6054	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
CRP (mg/l)	#OTU-1136	0.5896	0.0080	0.9995	0.6244	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Micrococcaceae(100);Rothia(100);</i>
Eosinophiles %	†OTU-1346	0.6511	0.0038	0.8203	0.3518	<i>Bacteroidetes(74);Bacteroidetes uncl.(74);Bacteroidetes uncl.(74);Bacteroidetes uncl.(74);Bacteroidetes uncl.(74);</i>
	OTU-1700	0.6435	0.0084	0.8203	0.4404	<i>Bacteroidetes(100);Flavobacteriia(100);Flavobacteriales(100);Flavobacteriaceae(100);Flavobacteriaceae uncl.(100);</i>
	OTU-3170	0.5990	0.0082	0.8203	0.4705	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(100);</i>
	OTU-860	0.6492	0.0081	0.8203	0.4743	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(100);</i>
	OTU-3775	0.6492	0.0085	0.8203	0.4743	<i>Proteobacteria(100);Betaproteobacteria(100);Neisseriales(100);Neisseriaceae(100);Neisseriaceae uncl.(100);</i>
	OTU-4173	0.6492	0.0083	0.8203	0.4743	<i>Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);</i>
	OTU-6299	0.6492	0.0085	0.8203	0.4743	<i>Fusobacteria(100);Fusobacteriia(100);Fusobacteriales(100);Leptotrichiaceae(100);Leptotrichia(100);</i>
	OTU-8459	0.6492	0.0086	0.8203	0.4743	<i>Proteobacteria(100);Betaproteobacteria(100);Burkholderiales(100);Burkholderiaceae(100);Lautropia(100);</i>
	OTU-1116	0.6480	0.0040	0.8203	0.4761	<i>Proteobacteria(100);Betaproteobacteria(100);Neisseriales(100);Neisseriaceae(100);Kingella(100);</i>
	OTU-836	0.6654	0.0026	0.8203	0.5269	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(89);</i>
	OTU-1	0.5982	0.0057	0.8203	0.5436	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
	OTU-1372	0.5706	0.0093	0.8203	0.5463	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
	OTU-179	0.6223	0.0036	0.8203	0.5475	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
Erythrocytes (cells/pl)	OTU-1158	0.6547	0.0008	0.9067	-0.5915	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Porphyromonadaceae(100);Porphyromonas(100);</i>
	OTU-2511	0.5539	0.0097	0.9589	-0.4826	<i>Bacteroidetes(100);Flavobacteriia(86);Flavobacteriales(86);Flavobacteriaceae(86);Flavobacteriaceae uncl.(86);</i>
	OTU-7953	0.6216	0.0018	0.9589	-0.4794	<i>Proteobacteria(100);Betaproteobacteria(100);Neisseriales(100);Neisseriaceae(100);Neisseriaceae uncl.(100);</i>
	OTU-5870	0.5424	0.0096	0.9589	-0.4644	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(100);</i>
	OTU-9203	0.5740	0.0059	0.9589	0.4794	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
	OTU-1269	0.5840	0.0055	0.9589	0.4823	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
Hb (g/dl)	OTU-1096	0.5657	0.0069	0.9863	-0.5660	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Porphyromonadaceae(100);Porphyromonas(100);</i>
	OTU-1571	0.6448	0.0020	0.9863	-0.5044	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
	OTU-6277	0.6889	0.0031	0.9863	-0.4798	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(100);</i>
	OTU-5911	0.5486	0.0094	0.9863	-0.4738	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(100);</i>
	OTU-1782	0.7076	0.0033	0.9863	-0.4593	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Carnobacteriaceae(100);Granulicatella(100);</i>
	OTU-1375	0.6041	0.0034	0.9863	-0.4214	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(95);</i>
Hematocrit	OTU-1312	0.5810	0.0038	0.9718	-0.5666	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
	OTU-6277	0.5973	0.0007	0.7874	-0.4842	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(100);</i>
	OTU-1375	0.5611	0.0053	0.9718	-0.4365	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(95);</i>
	OTU-1782	0.5907	0.0066	0.9718	-0.4214	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Carnobacteriaceae(100);Granulicatella(100);</i>
	OTU-6685	0.5895	0.0071	0.9718	0.4842	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(100);</i>
LDH (U/l)	OTU-527	0.6314	0.0029	0.7471	-0.6813	<i>Proteobacteria(100);Betaproteobacteria(100);Neisseriales(100);Neisseriaceae(100);Neisseria(99);</i>
	OTU-336	0.5589	0.0046	0.7471	-0.0343	<i>Candidatus_Saccharibacteria(100);Candidatus_Saccharibacteria uncl.(100)</i>
	OTU-406	0.5938	0.0050	0.7471	-0.0033	<i>Fusobacteria(95);Fusobacteriia(95);Fusobacteriales(95);Fusobacteriales uncl.(72);Fusobacteriales uncl.(72);</i>
	OTU-169	0.5806	0.0049	0.7471	0.1277	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Prevotellaceae(99);Prevotellaceae uncl.(97);</i>
	OTU-5032	0.6126	0.0066	0.7898	0.4738	<i>Fusobacteria(100);Fusobacteriia(100);Fusobacteriales(100);Fusobacteriaceae(100);Fusobacterium(100);</i>
	OTU-5350	0.6126	0.0066	0.7898	0.4738	<i>Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);</i>
	OTU-3096	0.6315	0.0034	0.7471	0.4987	<i>Proteobacteria(100);Betaproteobacteria(100);Burkholderiales(100);Burkholderiaceae(100);Lautropia(100);</i>
	OTU-4576	0.6315	0.0034	0.7471	0.4987	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(67);</i>
	OTU-8980	0.6315	0.0036	0.7471	0.4987	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(100);</i>
	+OTU-548	0.6439	0.0011	0.7471	0.5944	<i>Bacteroidetes(100);Bacteroidia(99);Bacteroidales(99);Prevotellaceae(93);Prevotellaceae uncl.(93);</i>
Lymphocytes %	OTU-1307	0.5746	0.0086	0.3130	-0.5790	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(65);</i>
	OTU-2733	0.6372	0.0033	0.3130	-0.4984	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
	OTU-162	0.5170	0.0064	0.3130	0.1523	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>

	OTU-104	0.6638	0.0017	0.3130	0.2811	<i>Fusobacteria</i> (100); <i>Fusobacteriia</i> (100); <i>Fusobacteriales</i> (100); <i>Fusobacteriaceae</i> (100); <i>Fusobacterium</i> (100);
	OTU-727	0.5284	0.0094	0.3130	0.3321	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Catonella</i> (100);
	OTU-2931	0.5885	0.0065	0.3130	0.3344	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Actinomycetaceae</i> (100); <i>Actinomyces</i> (100);
	OTU-806	0.6457	0.0008	0.3130	0.3843	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pseudomonadales</i> (100); <i>Pseudomonadaceae</i> (100); <i>Pseudomonas</i> (100);
	OTU-539	0.6166	0.0069	0.3130	0.3901	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Bacillales</i> (100); <i>Staphylococcaceae</i> (100); <i>Staphylococcus</i> (100);
	OTU-353	0.5895	0.0034	0.3130	0.3972	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Corynebacteriaceae</i> (94); <i>Corynebacterium</i> (93);
	OTU-1107	0.6642	0.0015	0.3130	0.4122	<i>Firmicutes</i> (100); <i>Negativicutes</i> (100); <i>Selenomonadales</i> (100); <i>Veillonellaceae</i> (100); <i>Veillonella</i> (100);
	OTU-698	0.6722	0.0005	0.3130	0.4288	<i>Firmicutes</i> (100); <i>Clostridia</i> (100); <i>Clostridiales</i> (100); <i>Lachnospiraceae</i> (100); <i>Catonella</i> (100);
	OTU-1383	0.6198	0.0028	0.3130	0.4349	<i>Firmicutes</i> (100); <i>Negativicutes</i> (100); <i>Selenomonadales</i> (100); <i>Veillonellaceae</i> (100); <i>Selenomonas</i> (100);
	#OTU-255	0.5997	0.0040	0.3130	0.4540	<i>Proteobacteria</i> (100); <i>Epsilonproteobacteria</i> (100); <i>Campylobacteriales</i> (100); <i>Campylobacteraceae</i> (100); <i>Campylobacter</i> (100);
	OTU-132	0.6299	0.0023	0.3130	0.4623	<i>Proteobacteria</i> (100); <i>Epsilonproteobacteria</i> (100); <i>Campylobacteriales</i> (100); <i>Campylobacteraceae</i> (100); <i>Campylobacter</i> (100);
	OTU-1524	0.6246	0.0021	0.3130	0.4847	<i>Fusobacteria</i> (100); <i>Fusobacteriia</i> (100); <i>Fusobacteriales</i> (100); <i>Fusobacteriaceae</i> (100); <i>Fusobacterium</i> (100);
	OTU-736	0.5521	0.0095	0.3130	0.4967	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Lactobacillaceae</i> (100); <i>Lactobacillus</i> (100);
	OTU-908	0.5832	0.0084	0.3130	0.4967	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Bacillales</i> (100); <i>Staphylococcaceae</i> (100); <i>Staphylococcus</i> (100);
	OTU-5867	0.6171	0.0054	0.3130	0.4984	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-774	0.5385	0.0032	0.3130	0.4990	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Oceanospirillales</i> (100); <i>Alcanivoracaceae</i> (100); <i>Alcanivorax</i> (100);
	OTU-823	0.4897	0.0090	0.3130	0.4990	<i>Bacteroidetes</i> (100); <i>Sphingobacteriia</i> (100); <i>Sphingobacteriales</i> (100); <i>Chitinophagaceae</i> (100); <i>Chitinophagaceae uncl.</i> (100);
	OTU-1527	0.6182	0.0054	0.3130	0.4990	<i>Firmicutes</i> (100); <i>Negativicutes</i> (100); <i>Selenomonadales</i> (100); <i>Veillonellaceae</i> (100); <i>Dialister</i> (100);
	OTU-2442	0.5293	0.0028	0.3130	0.4990	<i>Firmicutes</i> (88); <i>Firmicutes uncl.</i> (88); <i>Firmicutes uncl.</i> (88); <i>Firmicutes uncl.</i> (88); <i>Firmicutes uncl.</i> (88);
	OTU-819	0.5588	0.0100	0.3130	0.5138	<i>Firmicutes</i> (100); <i>Negativicutes</i> (100); <i>Selenomonadales</i> (100); <i>Veillonellaceae</i> (100); <i>Selenomonas</i> (100);
	OTU-1659	0.6389	0.0021	0.3130	0.6119	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Neisseriaceae uncl.</i> (93);
MCH (pg/cell)	OTU-1375	0.5997	0.0028	0.5627	-0.6267	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (95);
	OTU-1782	0.5831	0.0018	0.4366	-0.4785	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Carnobacteriaceae</i> (100); <i>Granulicatella</i> (100);
	OTU-4038	0.5526	0.0060	0.8006	0.4658	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Actinomycetaceae</i> (100); <i>Actinomyces</i> (100);
	OTU-6710	0.5526	0.0054	0.8006	0.4658	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-7315	0.5526	0.0054	0.8006	0.4658	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Corynebacteriaceae</i> (100); <i>Corynebacterium</i> (100);
	OTU-5400	0.5743	0.0017	0.4366	0.4891	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-6956	0.5743	0.0014	0.4366	0.4891	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Actinomycetaceae</i> (100); <i>Actinomyces</i> (100);
	OTU-2511	0.5353	0.0099	0.9182	0.4969	<i>Bacteroidetes</i> (100); <i>Flavobacteriia</i> (86); <i>Flavobacteriales</i> (86); <i>Flavobacteriaceae</i> (86); <i>Flavobacteriaceae uncl.</i> (86);
	#OTU-835	0.6564	0.0004	0.4366	0.4975	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Cardiobacteriales</i> (100); <i>Cardiobacteriaceae</i> (100); <i>Cardiobacterium</i> (100);
	OTU-2168	0.5481	0.0086	0.9182	0.5119	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-3982	0.6000	0.0012	0.4366	0.5580	<i>Bacteria uncl.</i> (75); <i>Bacteria uncl.</i> (75); <i>Bacteria uncl.</i> (75); <i>Bacteria uncl.</i> (75); <i>Bacteria uncl.</i> (75);
MCHC (g/dl)	OTU-86	0.5752	0.0055	0.5313	0.0064	<i>Bacteroidetes</i> (100); <i>Flavobacteriia</i> (100); <i>Flavobacteriales</i> (100); <i>Flavobacteriaceae</i> (100); <i>Flavobacteriaceae uncl.</i> (100);
	#OTU-512	0.6284	0.0020	0.5313	0.2608	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Kingella</i> (100);
	#OTU-740	0.5665	0.0062	0.5326	0.3472	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (92);
	OTU-237	0.5564	0.0050	0.5313	0.3514	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Corynebacteriaceae</i> (100); <i>Corynebacterium</i> (100);
	#OTU-835	0.5841	0.0047	0.5313	0.4164	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Cardiobacteriales</i> (100); <i>Cardiobacteriaceae</i> (100); <i>Cardiobacterium</i> (100);
	OTU-2235	0.5747	0.0052	0.5313	0.4166	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-4038	0.5678	0.0051	0.5313	0.4777	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Actinomycetaceae</i> (100); <i>Actinomyces</i> (100);
	OTU-6710	0.5678	0.0036	0.5313	0.4777	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);
	OTU-7315	0.5678	0.0041	0.5313	0.4777	<i>Actinobacteria</i> (100); <i>Actinobacteria</i> (100); <i>Actinomycetales</i> (100); <i>Corynebacteriaceae</i> (100); <i>Corynebacterium</i> (100);
	OTU-377	0.5687	0.0005	0.3102	0.4792	<i>Bacteroidetes</i> (100); <i>Flavobacteriia</i> (100); <i>Flavobacteriales</i> (100); <i>Flavobacteriaceae</i> (100); <i>Capnocytophaga</i> (100);
	OTU-1968	0.5705	0.0058	0.5313	0.5223	<i>Fusobacteria</i> (100); <i>Fusobacteriia</i> (100); <i>Fusobacteriales</i> (100); <i>Leptotrichiaceae</i> (100); <i>Leptotrichia</i> (100);
	OTU-3775	0.6308	0.0043	0.5313	0.5264	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Neisseriaceae uncl.</i> (100);
	OTU-1116	0.5697	0.0014	0.5313	0.5274	<i>Proteobacteria</i> (100); <i>Betaproteobacteria</i> (100); <i>Neisseriales</i> (100); <i>Neisseriaceae</i> (100); <i>Kingella</i> (100);
	OTU-5446	0.7042	0.0004	0.3102	0.5849	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Pasteurellaceae uncl.</i> (100);
MCV (fl)	OTU-562	0.6249	0.0025	0.8808	-0.3852	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Haemophilus</i> (89);
	OTU-2359	0.5628	0.0091	0.8808	0.5702	<i>Fusobacteria</i> (88); <i>Fusobacteriia</i> (88); <i>Fusobacteriales</i> (88); <i>Leptotrichiaceae</i> (88); <i>Leptotrichiaceae uncl.</i> (88);
	OTU-1965	0.5869	0.0096	0.8808	0.6020	<i>Proteobacteria</i> (100); <i>Gammaproteobacteria</i> (100); <i>Pasteurellales</i> (100); <i>Pasteurellaceae</i> (100); <i>Haemophilus</i> (55);
Monocytes	OTU-520	0.5981	0.0060	0.8266	-0.5933	<i>Firmicutes</i> (100); <i>Bacilli</i> (100); <i>Lactobacillales</i> (100); <i>Streptococcaceae</i> (100); <i>Streptococcus</i> (100);

%	OTU-5285	0.5705	0.0092	0.8266	-0.5395	<i>Firmicutes(100);Clostridia(100);Clostridiales(100);Clostridiales uncl.(100);Clostridiales uncl.(100);</i>
	OTU-4038	0.4808	0.0099	0.8266	0.3694	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
	OTU-386	0.4935	0.0065	0.8266	0.4588	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Prevotellaceae(100);Prevotella(100);</i>
	OTU-3980	0.5530	0.0043	0.8266	0.5098	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
	OTU-843	0.5248	0.0011	0.8266	0.5238	<i>Proteobacteria(100);Betaproteobacteria(100);Burkholderiales(100);Comamonadaceae(100);Ottowia(100);</i>
	OTU-1984	0.5952	0.0052	0.8266	0.5787	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
Neutrophiles	OTU-2316	0.4982	0.0089	0.8932	0.3612	<i>Firmicutes(100);Negativicutes(100);Selenomonadales(100);Veillonellaceae(100);Selenomonas(100);</i>
%	OTU-4203	0.4982	0.0086	0.8932	0.3612	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(100);</i>
	OTU-5263	0.4982	0.0086	0.8932	0.3612	<i>Fusobacteria(100);Fusobacteriia(100);Fusobacteriales(100);Leptotrichiaceae(100);Leptotrichia(100);</i>
	OTU-2733	0.5623	0.0080	0.8932	0.4735	<i>Actinobacteria(100);Actinobacteria(100);Actinomycetales(100);Actinomycetaceae(100);Actinomyces(100);</i>
	OTU-1307	0.6130	0.0031	0.8932	0.5913	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(65);</i>
Thrombocytes	OTU-1571	0.5630	0.0042	0.9990	-0.5614	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
(cells/nl)	OTU-2203	0.5813	0.0031	0.9990	-0.5356	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(67);</i>
	OTU-1833	0.4661	0.0087	0.9990	-0.4587	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Haemophilus(59);</i>
	OTU-4396	0.5062	0.0023	0.9990	0.4778	<i>Proteobacteria(100);Gammaproteobacteria(100);Pasteurellales(100);Pasteurellaceae(100);Pasteurellaceae uncl.(100);</i>
	OTU-4812	0.5519	0.0017	0.9990	0.4791	<i>Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);Bacteria uncl.(100);</i>
	OTU-1901	0.4790	0.0056	0.9990	0.4938	<i>Firmicutes(100);Bacilli(100);Lactobacillales(100);Streptococcaceae(100);Streptococcus(100);</i>
	OTU-1964	0.5105	0.0086	0.9990	0.5177	<i>Bacteroidetes(100);Bacteroidia(100);Bacteroidales(100);Porphyromonadaceae(100);Porphyromonas(100);</i>

+ indicators for healthy individuals; # indicators for CRMO; ‡ indicators for relapse; † indicators for no relapse

Table S8: Association of alpha diversity measures in the fecal and oral microbial communities with the clinical measurements in CRMO patients. Lines highlighted in red show nominally significant Euclidean distance correlations and includes Spearman rank correlation coefficients (SCC).

Diversity	Physiology	Stool					Saliva				
		N	SCC	Euclidean dist.	P-value	P _{FDR}	N	SCC	Euclidean dist.	P-value	P _{FDR}
ACE species richness	BSR (1h)	21	-0.0559	0.3283	0.3817	0.8589	22	-0.1255	0.3438	0.4368	0.7863
	CRP (mg/l)	22	-0.0017	0.3019	0.4892	0.8594	24	0.0762	0.2566	0.8531	0.8531
	Hb (g/dl)	22	-0.1125	0.3528	0.3510	0.8589	24	-0.0300	0.3175	0.6684	0.8531
	Erythrocytes (cells/pl)	22	-0.2796	0.3841	0.2199	0.7171	24	-0.2645	0.3259	0.5690	0.8531
	Hematocrit	22	-0.3340	0.4118	0.1459	0.6565	24	-0.1837	0.3669	0.3417	0.6833
	MCV (fl)	22	-0.0040	0.2796	0.8387	0.9127	24	0.3425	0.4837	0.0467	0.2803
	MCH (pg/cell)	21	0.0989	0.2896	0.6684	0.8594	23	0.3685	0.4348	0.1171	0.3719
	MCHC (g/dl)	21	0.3006	0.2771	0.6480	0.8594	23	0.2638	0.3849	0.2383	0.6127
	Thrombocytes (cells/nl)	22	0.0141	0.1917	0.9971	0.9971	24	-0.1087	0.2866	0.6857	0.8531
	Neutrophiles %	20	0.4090	0.5303	0.0325	0.3490	22	-0.3315	0.3679	0.2841	0.6393
	Eosinophiles %	20	-0.0542	0.2585	0.8513	0.9127	22	-0.1657	0.2968	0.6595	0.8531
	Basophiles %	19	-0.1565	0.3998	0.2390	0.7171	21	-0.5186	0.4358	0.1240	0.3719
	Lymphocytes %	20	-0.3624	0.5245	0.0388	0.3490	22	0.3721	0.4603	0.0882	0.3719
	Monocytes %	19	0.1632	0.3149	0.6389	0.8594	21	0.0760	0.2890	0.8158	0.8531
	Calcium (mmol/l)	20	-0.0437	0.3062	0.6578	0.8594	22	0.5210	0.6073	0.0055	0.0986
	AP (U/l)	12	-0.4343	0.4456	0.4971	0.8594	13	-0.0275	0.3844	0.7870	0.8531
	LDH (U/l)	20	-0.2701	0.4241	0.1399	0.6565	22	-0.0028	0.3141	0.7169	0.8531
Shannon H numbers equivalent	BSR (1h)	21	-0.0351	0.3184	0.4781	0.9201	22	-0.0729	0.2900	0.8097	0.8757
	CRP (mg/l)	22	0.0793	0.3072	0.5149	0.9201	24	-0.1415	0.2679	0.8169	0.8757
	Hb (g/dl)	22	-0.1035	0.3549	0.3970	0.9201	24	0.0017	0.3140	0.7093	0.8757
	Erythrocytes (cells/pl)	22	-0.2559	0.3814	0.2613	0.7839	24	-0.0840	0.3420	0.4901	0.8757
	Hematocrit	22	-0.3506	0.4154	0.1566	0.6466	24	0.0325	0.3430	0.4979	0.8757
	MCV (fl)	22	-0.1314	0.2892	0.8466	0.9201	24	0.2692	0.4082	0.2029	0.6087
	MCH (pg/cell)	21	0.0507	0.2944	0.7136	0.9201	23	0.2132	0.2938	0.7993	0.8757
	MCHC (g/dl)	21	0.2778	0.2534	0.8572	0.9201	23	0.0228	0.2408	0.9694	0.9694
	Thrombocytes (cells/nl)	22	-0.0141	0.2321	0.9650	0.9650	24	0.0565	0.2680	0.8271	0.8757
	Neutrophiles %	20	0.4045	0.5358	0.0328	0.4090	22	-0.4613	0.4268	0.1491	0.5368
	Eosinophiles %	20	-0.0783	0.2708	0.8434	0.9201	22	-0.1946	0.3320	0.5233	0.8757
	Basophiles %	19	-0.0584	0.4297	0.1796	0.6466	21	-0.3448	0.4653	0.0966	0.4347
	Lymphocytes %	20	-0.3669	0.5197	0.0454	0.4090	22	0.4873	0.5616	0.0156	0.1215
	Monocytes %	19	0.1272	0.3370	0.5784	0.9201	21	-0.2592	0.3764	0.3754	0.8757
	Calcium (mmol/l)	20	0.0430	0.3029	0.7321	0.9201	22	0.5447	0.6305	0.0029	0.0522
	AP (U/l)	12	-0.4273	0.4356	0.5724	0.9201	13	0.2971	0.3949	0.7675	0.8757
	LDH (U/l)	20	-0.3115	0.4463	0.1128	0.6466	22	0.1333	0.3316	0.6065	0.8757

Table S9: Association of beta diversity measures of fecal and oral microbial communities with clinical measurements in CRMO patients via PERMANOVA. Red highlights nominally significant associations between beta diversity and clinical measurements.

Metric	Physiology	Fecal					Oral				
		DF	F-Value	P-Value	R ²	Adj. R ²	DF	F-Value	P-Value	R ²	Adj. R ²
Bray-Curtis	BSR (1h)	1,19	1.1024	0.2328	0.0548	0.0051	1,20	0.9939	0.4437	0.0473	-0.0003
	CRP (mg/l)	1,20	0.7561	0.9649	0.0364	-0.0117	1,22	0.7064	0.9654	0.0311	-0.0129
	Hb (g/dl)	1,20	1.1671	0.1566	0.0551	0.0079	1,22	0.8006	0.8363	0.0351	-0.0087
	Erythrocytes (cells/pl)	1,20	1.2890	0.0521	0.0605	0.0136	1,22	0.8824	0.6999	0.0386	-0.0051
	Hematocrit*	1,20	1.4467	0.0117	0.0675	0.0208	1,22	1.0149	0.4221	0.0441	0.0006
	MCV (fl)	1,20	0.9022	0.6997	0.0432	-0.0047	1,22	1.0232	0.3949	0.0444	0.0010
	MCH (pg/cell)	1,19	1.0333	0.3674	0.0516	0.0017	1,21	0.8198	0.8096	0.0376	-0.0083
	MCHC (g/dl)	1,19	1.2005	0.1127	0.0594	0.0099	1,21	0.8299	0.8007	0.0380	-0.0078
	Thrombocytes (cells/nl)	1,20	0.9441	0.5962	0.0451	-0.0027	1,22	0.7970	0.8749	0.0350	-0.0089
	Neutrophils %	1,18	1.1276	0.1970	0.0590	0.0067	1,20	1.0905	0.2690	0.0517	0.0043
	Eosinophils %	1,18	0.9606	0.5602	0.0507	-0.0021	1,20	1.4950	0.0404	0.0696	0.0230
	Basophils %	1,17	0.8545	0.8055	0.0479	-0.0081	1,19	0.9761	0.4788	0.0489	-0.0012
	Lymphocytes %	1,18	1.1550	0.1633	0.0603	0.0081	1,20	1.2480	0.1215	0.0587	0.0117
	Monocytes %	1,17	0.9903	0.4731	0.0550	-0.0005	1,19	0.9142	0.5924	0.0459	-0.0043
	Calcium (mmol/l)	1,18	0.9991	0.4635	0.0526	0.0000	1,20	1.5541	0.0240	0.0721	0.0257
	AP (U/l)	1,10	1.1507	0.1808	0.1032	0.0135	1,11	0.8865	0.7492	0.0746	-0.0095
	LDH (U/l)	1,18	0.9483	0.5821	0.0500	-0.0027	1,20	0.8935	0.6631	0.0428	-0.0051
	Age	1,20	0.9207	0.6637	0.0440	-0.0038	1,22	1.6499	0.0128	0.0698	0.0275
Jaccard	BSR (1h)	1,19	0.9898	0.6670	0.0495	-0.0005	1,20	0.9733	0.7149	0.0464	-0.0013
	CRP (mg/l)	1,20	0.9719	0.9291	0.0463	-0.0013	1,22	0.9027	0.9964	0.0394	-0.0043
	Hb (g/dl)	1,20	1.0065	0.3442	0.0479	0.0003	1,22	0.9552	0.8263	0.0416	-0.0020
	Erythrocytes (cells/pl)	1,20	1.0146	0.2112	0.0483	0.0007	1,22	0.9706	0.7149	0.0423	-0.0013
	Hematocrit	1,20	1.0305	0.0909	0.0490	0.0015	1,22	0.9550	0.8389	0.0416	-0.0020
	MCV (fl)	1,20	1.0275	0.1151	0.0489	0.0013	1,22	1.0659	0.0940	0.0462	0.0029
	MCH (pg/cell)	1,19	0.9939	0.5795	0.0497	-0.0003	1,21	1.0543	0.1277	0.0478	0.0025
	MCHC (g/dl)	1,19	1.0268	0.1038	0.0513	0.0013	1,21	0.9708	0.6970	0.0442	-0.0013
	Thrombocytes (cells/nl)	1,20	0.9985	0.4743	0.0475	-0.0001	1,22	0.9957	0.4770	0.0433	-0.0002
	Neutrophils %	1,18	1.0175	0.1739	0.0535	0.0009	1,20	0.9809	0.6193	0.0468	-0.0009
	Eosinophils %	1,18	0.9976	0.5093	0.0525	-0.0001	1,20	1.0345	0.2209	0.0492	0.0016
	Basophils %	1,17	1.0105	0.2753	0.0561	0.0006	1,19	1.0872	0.0547	0.0541	0.0043
	Lymphocytes %	1,18	1.0302	0.0812	0.0541	0.0016	1,20	1.0452	0.1631	0.0497	0.0021

Monocytes %	1,17	1.0005	0.4463	0.0556	0.0000	1,19	1.0129	0.3264	0.0506	0.0006
Calcium (mmol/l)	1,18	0.9605	0.9848	0.0507	-0.0021	1,20	1.0985	0.0319	0.0521	0.0047
AP (U/l)	1,10	1.0311	0.0653	0.0935	0.0028	1,11	0.9442	0.9036	0.0790	-0.0047
LDH (U/l)	1,18	1.0063	0.3224	0.0529	0.0003	1,20	1.0234	0.2621	0.0487	0.0011
Age	1,20	0.9771	0.9049	0.0466	-0.0011	1,22	1.2387	0.0012	0.0533	0.0103