

Supplementary Materials

Table S1 Species count of 23 sequenced samples

ID	domain	phylum	class	order	family	genus	species	unclassified
C1	18	0	1	559	1236	208	64	0
C2	23	2	5	222	595	251	54	0
C3	33	1	4	504	2082	257	67	0
C4	37	4	1	349	1034	305	61	0
C5	12	1	3	441	876	290	69	0
C6	16	2	2	480	1130	340	60	0
C7	21	0	2	728	1568	274	73	0
C8	24	0	1	137	179	185	58	0
H4_1	29	11	111	299	531	625	209	0
H4_2	58	1	0	989	1837	773	106	0
H4_3	48	2	0	423	1806	534	92	0
H4_4	22	2	0	399	1290	471	69	0
H4_5	32	0	1	423	2281	468	94	0
H4_6	47	0	0	785	1733	577	106	0
H4_7	36	4	5	744	2101	588	110	0
H6_1	25	0	3	379	1729	468	84	0
H6_2	20	2	2	482	1556	477	88	0
H6_3	29	0	0	773	1467	658	102	0
H6_4	38	0	2	617	2212	419	87	0
H6_5	34	0	1	570	1608	425	100	0
H6_6	51	1	2	650	2182	749	100	0
H6_7	54	6	3	525	2746	488	128	0
H6_8	27	0	3	366	2427	541	86	0

Table S2 Abundance statistics for the top 10 bacterial phylum of 23 sequenced samples

ID	H4_ 1	H4_ 2	H4_ 3	H4_ 4	H4_ 5	H4_ 6	H4_ 7	C1	C2	C3	C4	C5	C6	C7	C8	H6_ 1	H6_ 2	H6_ 3	H6_ 4	H6_ 5	H6_ 6	H6_ 7	H6_ 8
Firm icut es	0.0 565 289 4	0.6 314 129 3	0.4 075 245 6	0.4 974 387 2	0.2 555 201 9	0.4 582 123 8	0.5 244 830 8	0.6 341 724 8	0.6 615 449 3	0.3 267 036 5	0.4 420 435 4	0.7 076 565 8	0.5 264 558 6	0.6 025 413 2	0.8 078 323 9	0.2 798 562 5	0.3 707 695	0.5 684 07	0.3 377 979 1	0.4 311 265	0.5 424 451 6	0.3 623 137 9	0.3 413 930 9
Bact eroi dete s	0.1 191 084 5	0.3 120 476 5	0.4 587 767 1	0.4 509 028 8	0.6 518 114 3	0.4 233 452 6	0.3 772 757 5	0.3 265 333 8	0.2 674 829 2	0.6 317 689	0.4 411 319	0.2 240 994 1	0.4 266 203	0.3 712 161 6	0.0 144 749 3	0.5 871 617 5	0.5 102 031 8	0.3 660 220 8	0.4 605 005 3	0.4 157 796	0.3 930 357 4	0.4 828 792 6	0.6 147 749 6
Prot eoba cter ia	0.4 843 765	0.0 227 534 7	0.0 394 157 6	0.0 317 295 1	0.0 269 819 6	0.0 293 980 9	0.0 269 460 6	0.0 144 453 8	0.0 289 122 4	0.0 150 034 7	0.0 357 384 8	0.0 269 361 1	0.0 215 914 9	0.0 085 747 3	0.0 229 420 7	0.0 135 167 8	0.0 134 376 2	0.0 334 817 9	0.0 089 339	0.0 129 092 7	0.0 383 341	0.0 200 889 7	0.0 250 169 1
Verr ucom icro bia	0.0 092 468 9	0.0 140 908 2	0.0 805 807 4	0.0 074 148 6	0.0 376 770 6	0.0 512 421 6	0.0 430 828 1	0.0 145 810 2	0.0 053 704 7	0.0 152 871 5	0.0 592 808	0.0 001 882 8	0.0 092 893 6	0.0 069 604 9	0.0 002 810 7	0.0 944 833 3	0.0 903 731 4	0.0 255 900 7	0.1 813 055 7	0.1 141 064 5	0.0 064 273 7	0.1 214 203 2	0.0 078 288 6
Fuso bact eria	0.2 884 280 3	0 0	0 0	0.0 000 233 9	0 0	0 0	0 0	0 0	0 0	0.0 002 994 4	0.0 000 246 4	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 002 216 3	0 0
Acti noba	0.0 116	0.0 006	0.0 046	0.0 049	0.0 024 085	0.0 015	0.0 162	0.0 059	0.0 213	0.0 023	0.0 151	0.0 253	0.0 074	0.0 035	0.1 255	0.0 007	0.0 007 351	0.0 007	0.0 057	0.0 019	0.0 012	0.0 044	0.0 021

cter ia	842 2	404 9	645 9	822 2		075 9	602 9	951 7	977 9	167 1	528 2	671 4	314 9	394 8	548 1	509 3		543 6	381 5	183 6	271 8	008 9	746 8
Defe rrib acte res	0.0 011 331 4	0.0 143 790 4	0.0 048 540 9	0.0 046 430 6	0.0 208 343 9	0.0 334 397 2	0.0 066 091 2	0.0 011 936 1	0.0 013 347 3	0.0 050 747	0.0 012 812 1	0.0 117 108 1	0.0 047 702 1	0.0 027 545 8	0.0 000 585 6	0.0 219 915 8	0.0 124 084 8	0.0 022 485 6	0.0 017 896 2	0.0 219 818 3	0.0 144 193 9	0.0 036 093 7	0.0 074 583 6
TM7	0.0 004 596 7	0.0 003 202 5	0.0 014 139 5	0.0 014 502 2	0.0 006 905 5	0.0 001 924 6	0.0 020 537 7	0.0 015 055 7	0.0 118 024 2	0.0 020 803 1	0.0 028 950 5	0.0 034 266 3	0.0 029 374 5	0.0 033 617 7	0.0 264 202 6	0.0 004 156 9	0.0 006 615 9	0.0 012 911 1	0.0 005 965 4	0.0 010 124 3	0.0 011 398	0.0 004 510 5	
Tene ricu tes	0.0 096 317 3	0.0 014 411 1	0.0 007 142 6	0.0 005 262 9	0.0 016 842 7	0.0 000 481 1	0.0 003 706	0.0 001 492	0.0 007 041 5	0.0 001 891 2	0.0 003 819	0.0 000 627 6	0.0 002 259 6	0.0 002 813 8	0.0 010 305 8	0.0 003 352 4	0.0 001 176 2	0.0 006 092 9	0.0 006 533 5	0.0 002 740 5	0.0 002 914 6	0.0 008 390 2	0
Cyan obac teri a	0.0 092 041 3	0.0 000 960 7	0 701 7	0.0 000 189 5	0.0 002 320 8	0.0 000 617 7	0.0 000 813 8	0.0 005 675 2	0 246 259 4	0.0 000 246 4	0.0 002 259 3	0.0 001 004 3	0.0 000 148 1	0.0 001 054	0.0 000 536 4	0.0 000 294	0.0 000 580 3	0 432 7	0.0 000 613 6	0.0 000 324 4	0.0 003 324 4	0	
Othe rs	0.0 101 983	0.0 028 181 6	0.0 020 553 3	0.0 008 186 8	0.0 021 727	0.0 025 821 6	0.0 028 567 5	0.0 013 428 1	0.0 008 828 2	0.0 012 765 6	0.0 020 450 1	0.0 003 263 5	0.0 005 774 5	0.0 007 552 9	0.0 012 999 3	0.0 014 348 2	0.0 012 643 7	0.0 015 377 3	0.0 026 844 3	0.0 013 125 6	0.0 027 458 2	0.0 027 545 2	0.0 009 020 9

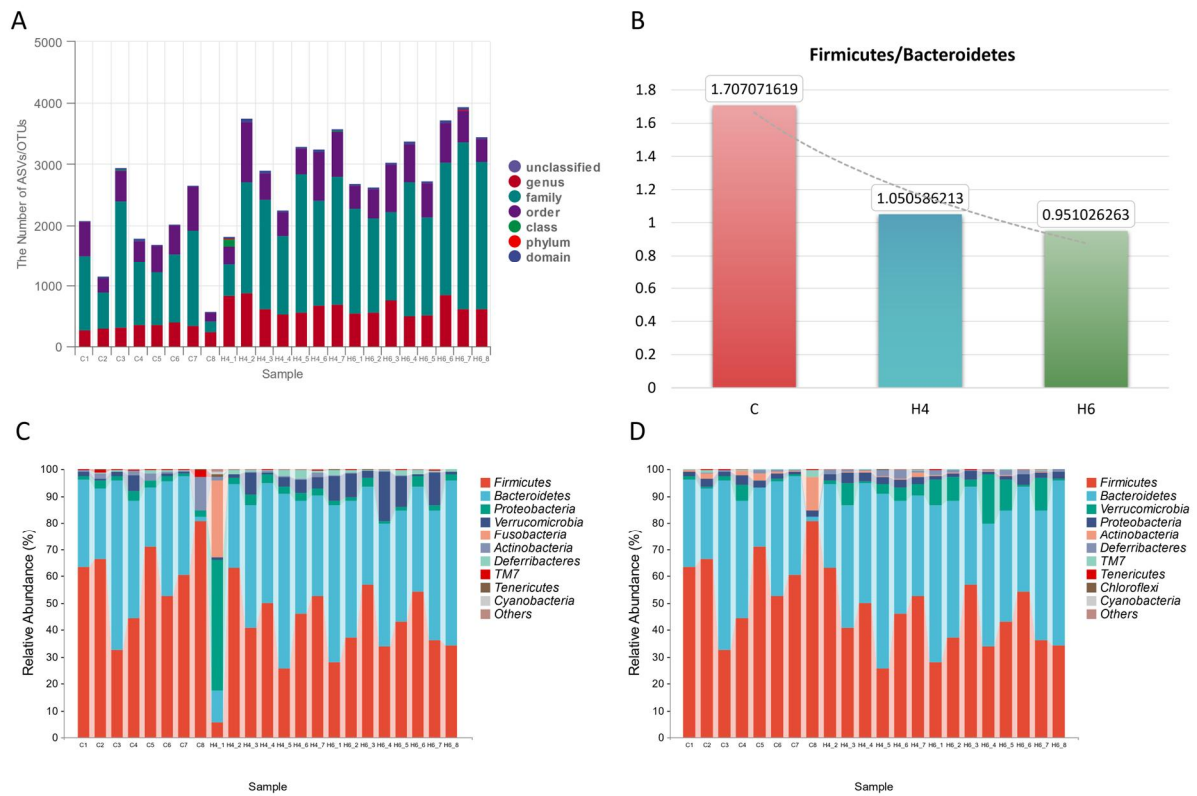


Figure S1 Distribution of species at the phylum level in 23 samples

A) Histogram of gut microbial distribution at different taxonomic levels in 23 samples; B) Firmicutes/Bacteroidetes ratios for the three sample groups; C) Histogram of microbial composition at the phylum level for the 23 sequenced samples; D) Histogram of microbial composition at the phylum level for the 22 sequenced samples (excluding H4_1)

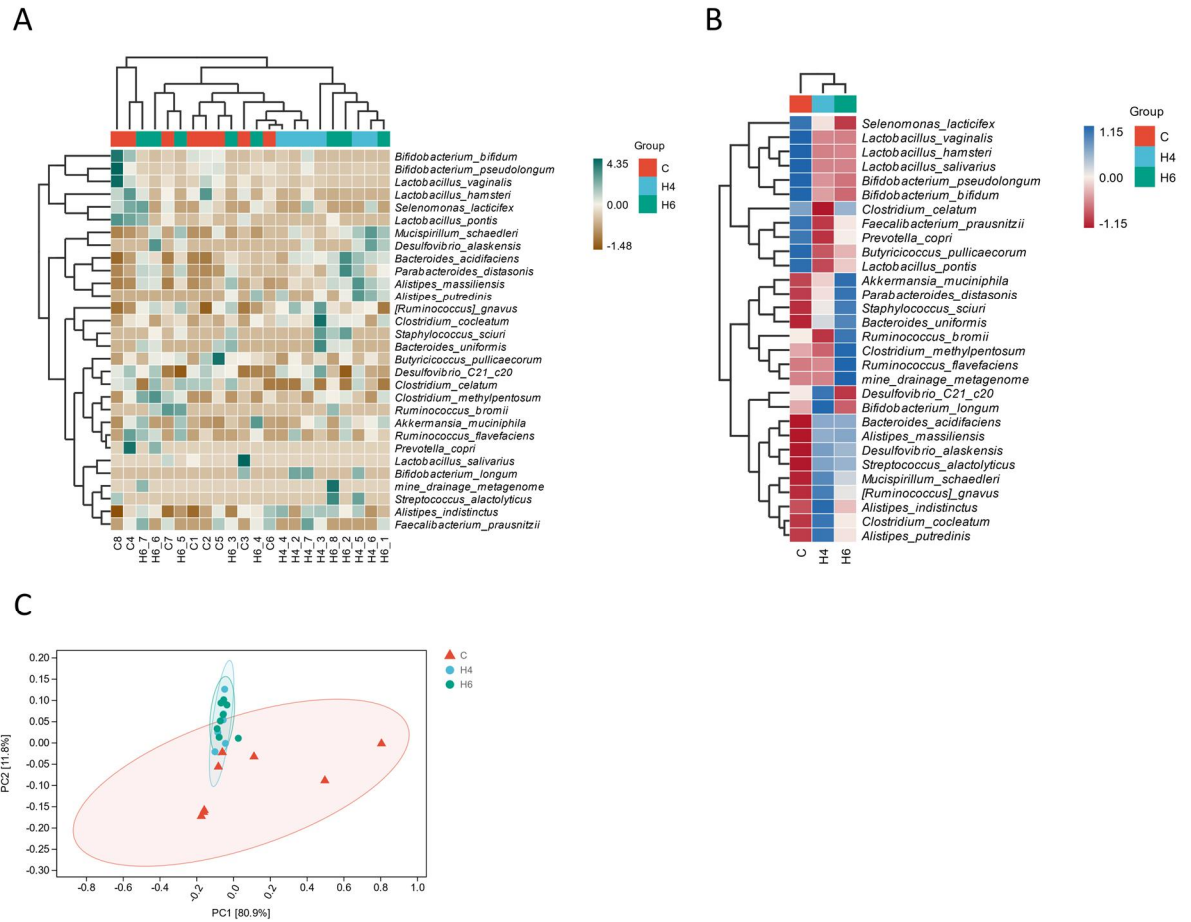


Figure S2 Heatmap of sample clustering at species level and OPLA-DA clustering results

A) Heatmap of the intestinal flora of 22 samples at the species level (wards.D2 algorithm was used for both species clustering and sample clustering); B) Heatmap of the intestinal flora of the burn and control groups at the species level (wards.D2 algorithm was used for both species clustering and sample clustering); C) OPLS-DA analysis of differences between the three groups