

Supplementary Table 1: Selection of CP Patients and their status related to Human Papiloma Virus (HPV+/HPV-) used in present study.

	Age	Sex	HPV status
CP1	26	F	positive
CP2	22	M	negative
CP3	30	F	negative
CP4	22	F	negative
CP5	26	F	positive
CP6	50	F	negative
CP7	60	M	negative
CP8	60	F	negative
CP9	50	M	negative
CP10	37	M	negative
CP11	39	M	negative
CP12	34	M	negative
CP13	39	M	negative
CP14	22	F	negative
CP15	55	F	positive
CP16	44	F	negative
CP17	37	M	negative
CP18	40	F	negative
CP19	32	F	positive
CP20	66	F	negative
CP21	33	F	positive
CP22	18	F	negative
CP23	40	F	negative
CP24	39	F	positive
CP25	38	F	negative
CP26	48	M	positive
CP27	40	F	negative
CP28	30	M	negative
CP29	48	F	negative
CP30	36	M	negative
CP31	42	M	negative
CP32	32	M	negative
CP33	31	M	negative
CP34	30	F	negative
CP35	27	M	negative
CP36	42	M	negative
CP37	29	M	negative

CP38	49	M	negative
CP39	30	F	negative
CP40	35	F	negative

Supplementary Table 2: Multiplexing with PacBio Barcoded Universal Primers in CP samples

S. No	Sample Name	Barcoded Primers Pair Used (Forward and Reverse Primers)	Pooling of Barcoded Samples and Library preparation
1	CP-1	F-R	Library 1
2	CP-2	F1-R1	Library 2
3	CP-3	F2-R1	Library 3
4	CP-4	F2-R2	
5	CP-6	F2-R3	
6	CP-7	F2-R4	
7	CP-8	F3-R1	Library 4
8	CP-9	F3-R2	
9	CP-10	F3-R3	
10	CP-11	F3-R4	
11	CP-13	F4-R1	Library 5
12	CP-14	F4-R2	
13	CP-15	F4-R3	
14	CP-16	F4-R4	
15	CP-18	F1-R1	Library 6
16	CP-12	F3-R4	
17	CP-5	F4-R3	
18	CP-19	F1-R2	
19	CP-20	F1-R3	
20	CP-17	F1-R3	Library 7
21	CP-21	F1-R1	
22	CP-22	F2-R1	
23	CP-23	F3-R1	
24	CP-24	F4-R1	
25	CP-25	F1-R2	
26	CP-26	F2-R3	
27	CP-27	F3-R3	
28	CP-28	F1-R1	Library 8
29	CP-29	F1-R2	
30	CP-30	F1-R3	
31	CP-31	F1-R4	
32	CP-32	F2-R1	
33	CP-33	F2-R2	
34	CP-34	F2-R3	

35	CP-35	F2-R4	
36	CP-36	F3-R1	
37	CP-37	F3-R2	
38	CP-38	F3-R3	
39	CP-39	F3-R4	
40	CP-40	F4-R1	

Supplementary Table 3: The number of processed full-length 16S rRNA sequences per CP samples ranged from 672 to 28,780 with an average of 7,357 reads/sample.

Sample Name	Number of Raw CCS Reads	Number of CCS Reads after filtering
CP1	9475	4192
CP2	6556	3736
CP3	16309	10405
CP4	9724	5731
CP5	37158	28780
CP6	12727	7802
CP7	18378	11864
CP8	7825	6007
CP9	7613	5792
CP10	11478	8858
CP11	11737	8586
CP12	25108	20363
CP13	15397	13282
CP14	8138	6149
CP15	10887	8885
CP16	11549	9311
CP17	10286	7811
CP18	6707	5403
CP19	9406	7515
CP20	5860	4690
CP21	14434	11687
CP22	6391	4693
CP23	9393	7172
CP24	11301	8993
CP26	7533	5573

CP27	9707	7193
CP30	3457	3148
CP31	772	672
CP32	5528	5172
CP33	1913	1652
CP34	4241	3544
CP35	6622	4767
CP36	6391	5701
CP37	3306	2928
CP38	4925	4399
CP39	4941	4119
CP40	6123	5646
Total Reads	359296	272774
Average No of Reads	9710.70	7357.32
\pm SD	6656.78	5117.64

Supplementary Table 5a: Alpha diversity values of shannon index for individual CP samples

Group	Shannon	Shannon_Ici	Shannon_hci
CP1	6.866257	6.810809	6.921705
CP10	7.614023	7.578461	7.649585
CP11	7.292934	7.252411	7.333456
CP12	7.996757	7.967874	8.025639
CP13	7.557078	7.498929	7.615228
CP14	7.246837	7.194382	7.299292
CP15	7.708749	7.671141	7.746356
CP16	7.778777	7.738416	7.819138
CP17	7.486967	7.44582	7.528114
CP18	7.244874	7.204657	7.285091
CP19	7.604914	7.572032	7.637797
CP2	6.740064	6.692445	6.787683
CP20	7.077464	7.037181	7.117747
CP21	7.510457	7.456783	7.564131
CP22	7.005247	6.953505	7.056988
CP23	7.217533	7.17357	7.261496
CP24	7.600276	7.5583	7.642252
CP26	7.079197	7.027381	7.131013
CP27	7.38128	7.331073	7.431487
CP3	7.707934	7.666318	7.74955
CP30	6.8497	6.801366	6.898034
CP31	5.60211	5.517967	5.686252
CP32	6.105019	5.995159	6.21488
CP33	5.974474	5.901364	6.047585
CP34	6.665454	6.604803	6.726104
CP35	5.514053	5.420546	5.607561
CP36	6.901879	6.852621	6.951137
CP 37	6.587557	6.534557	6.640557
CP38	6.967821	6.921932	7.013711
CP39	6.992089	6.942125	7.042052
CP4	7.102627	7.047715	7.157538
CP40	6.785265	6.728457	6.842072
CP5	8.058471	8.017507	8.099434
CP6	7.799119	7.764647	7.833591
CP7	7.628564	7.596682	7.660446
CP8	7.111301	7.054793	7.16781
CP9	6.787735	6.730904	6.844566

Supplementary Table 5b: Alpha diversity analysis tests ANNOVA (Repeated Measures ANNOVA) equal means

	Sum of sqrs	df	Mean square	F	p (same)
Between groups	7.19713E ⁰⁹	5	1.43943E ⁰⁹	0.8979	0.4837
Within groups	-	222	1.59909E ⁰⁹	-	-
Error	-	185	1.60316E ⁰⁹	-	-
Between subjects	-	37	1.57878E ⁰⁹	-	-
Total	-	227	-	-	-

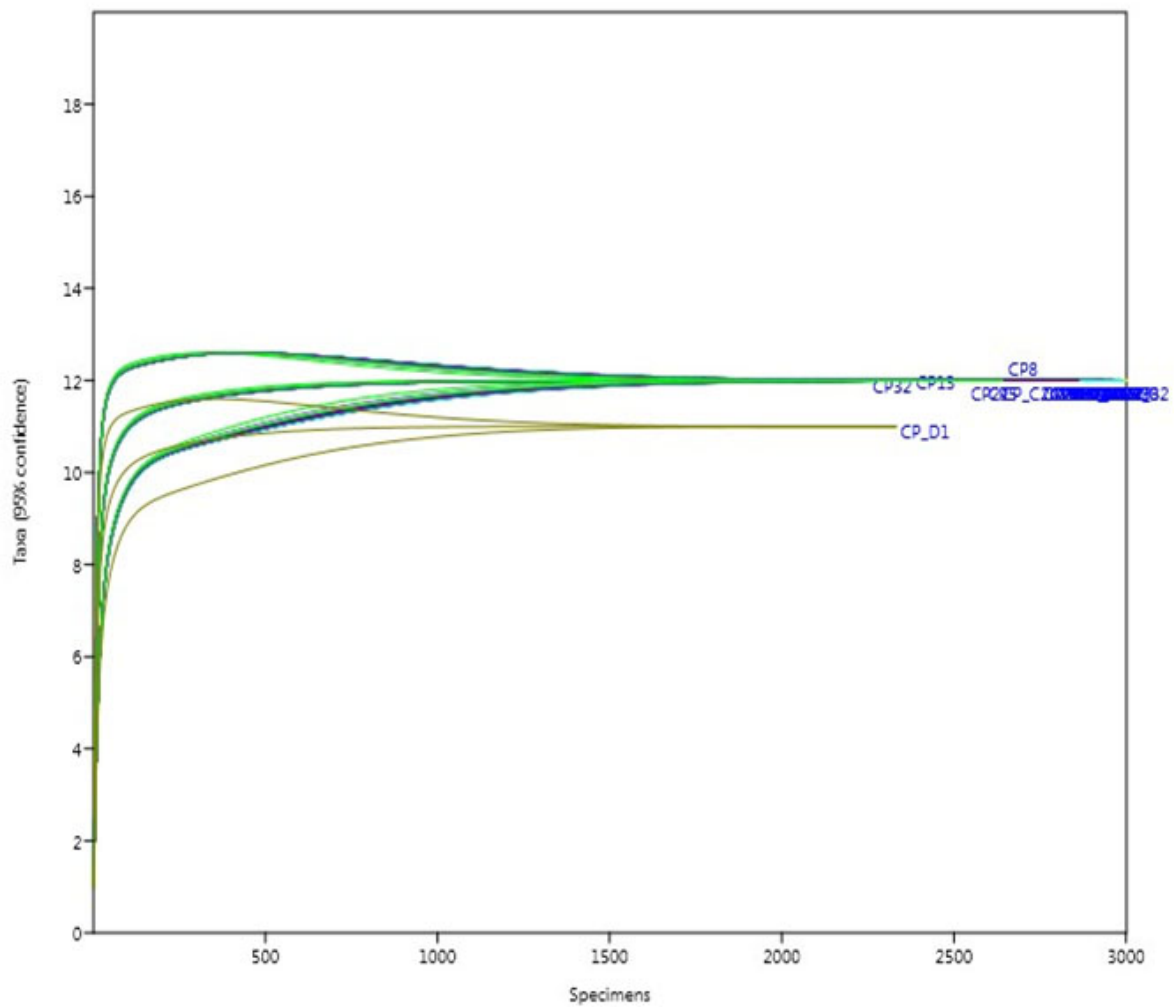
Supplementary Table 5c: Tukey's pairwise test showing no significant difference between sampled species in each sample.

nseqs	coverage	sobs	invsimpson	invsimpson_lci	invsimpson_hci
nseqs	0.9999	1	0.7584	0.999	0.8509
coverage	0.3461	0.9999	0.6038	0.9892	0.7176
sobs	0.04313	0.303	0.7404	0.9985	0.8365
invsimpson	1.906	2.252	1.949	0.9286	1
invsimpson_hci	0.5389	0.885	0.582	1.367	0.9694
invsimpson_hci	1.656	2.002	1.699	0.2498	1.117

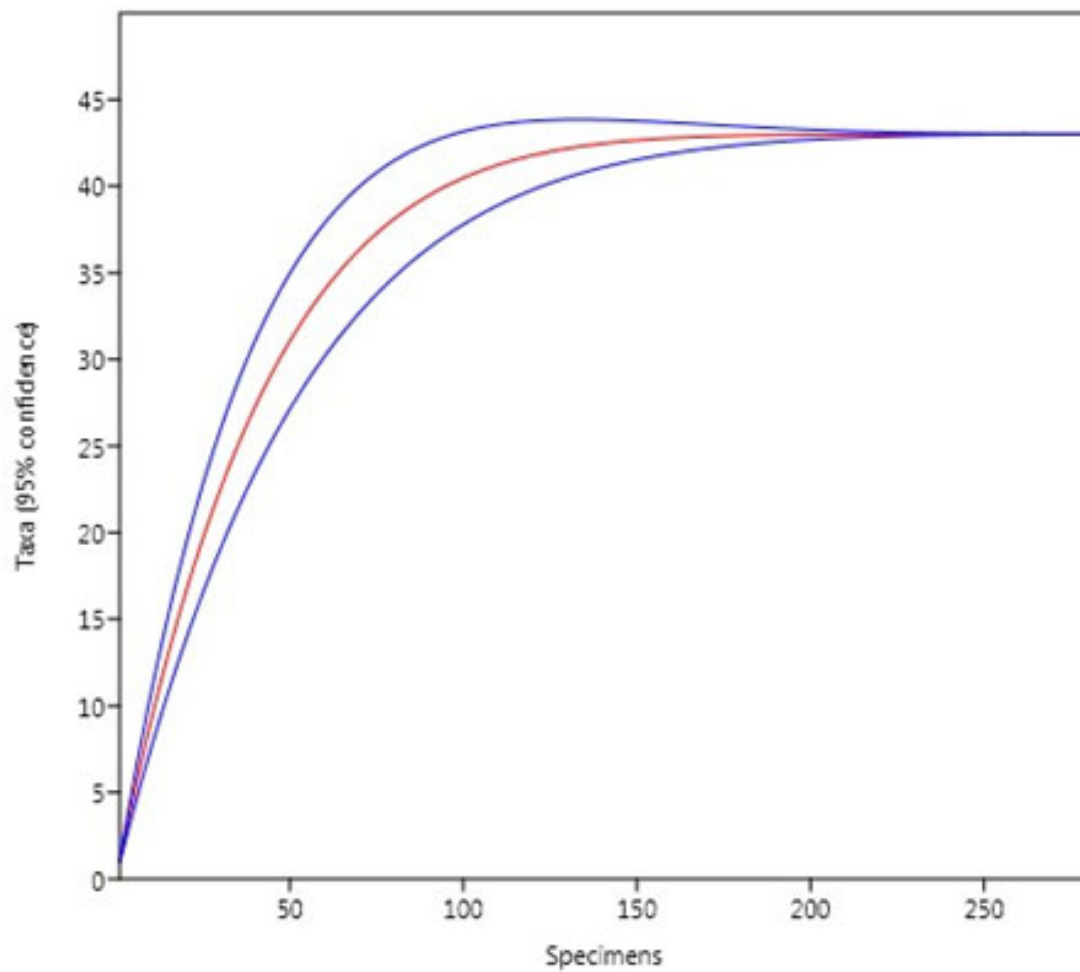
Supplementary Table 6: Different Indexes reporting Beta Diversity between HPV+ and HPV- CP dataset.

Whittaker:	2.1392
Harrison:	0.30561
Cody:	36.5
Routledge:	0.32126
Wilson-Shmida	3.6962
Mourelle:	0.52803
Harrison 2:	0.10317
Williams:	0.41935

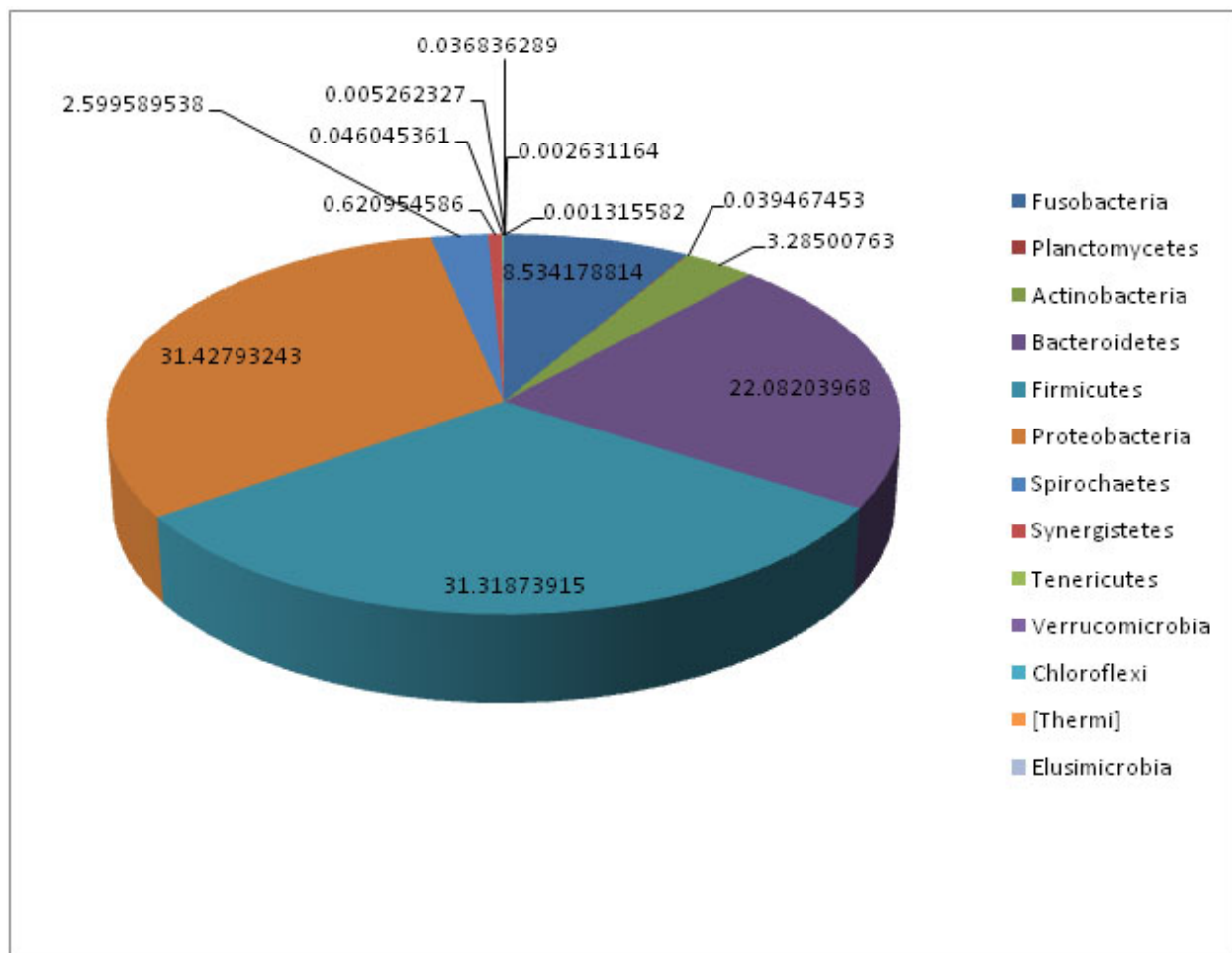
Supplementary Figure 1a: Rarefaction Curves calculated at 3% dissimilarity, compare the number of reads with the number of operational taxonomic units (OTUs) found in the DNA from the 40 CP samples. The curves for individual samples which nearly plateaued off for the majority of the samples.



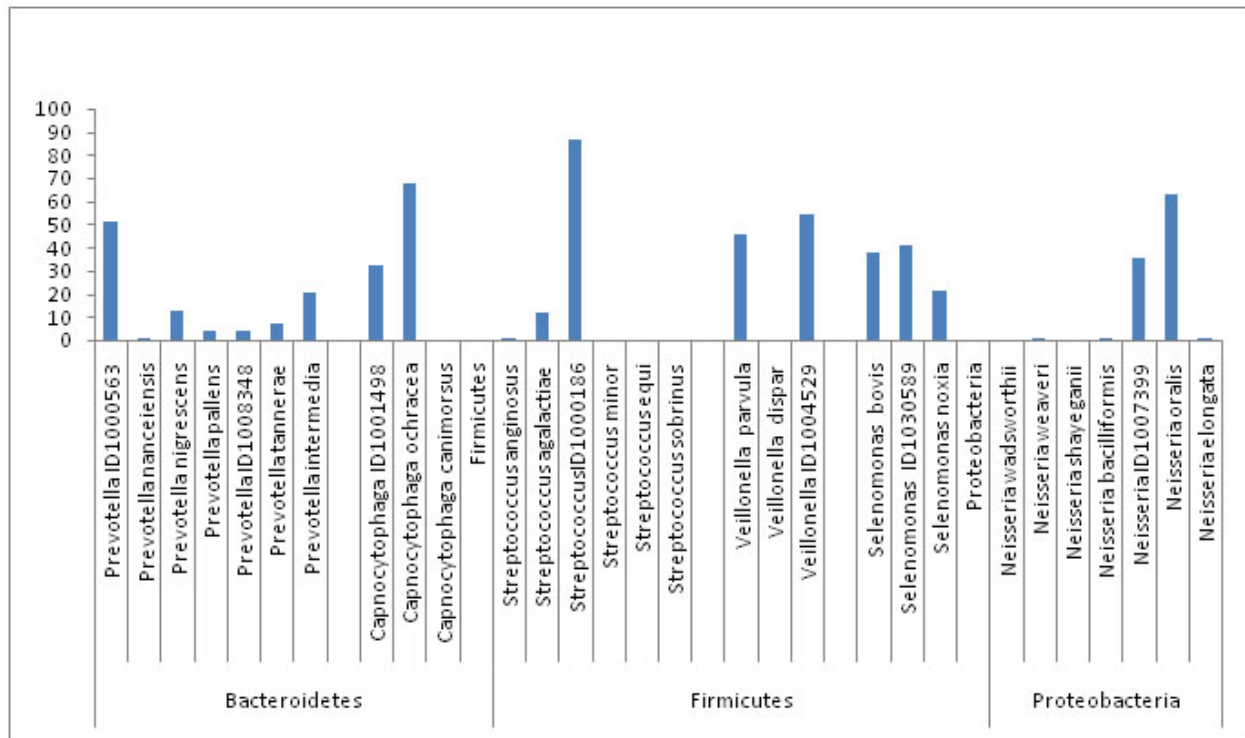
Supplementary Figure 1b: Sample rarefaction (Mao tau) curve of alpha diversity for species richness estimation ($p < 0.05$) as a function of number of samples derived from Shanon index values of individual samples.



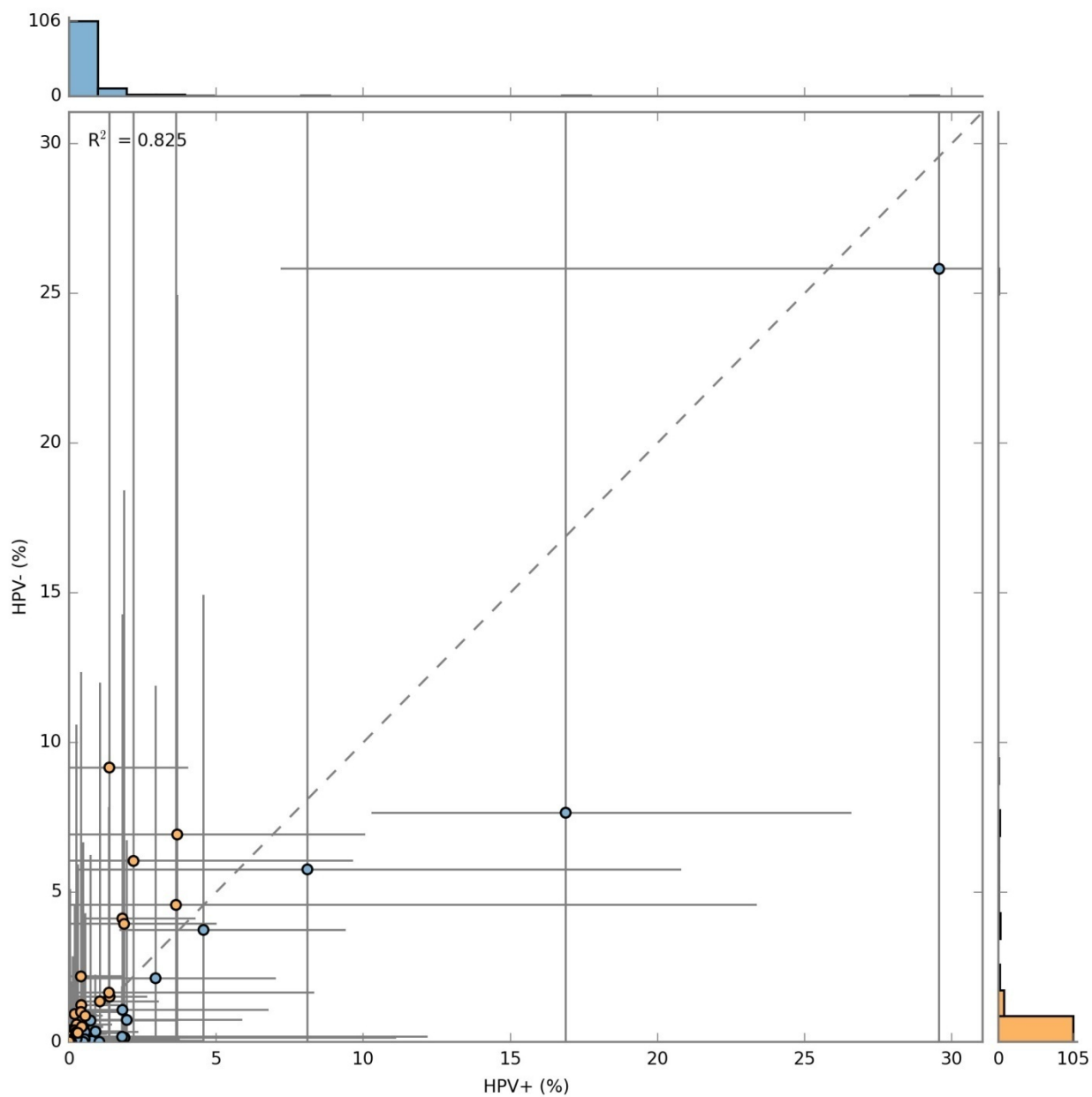
Supplementary Figure 2a: Diversity of bacterial phyla identified in granulations tissue of CP samples.



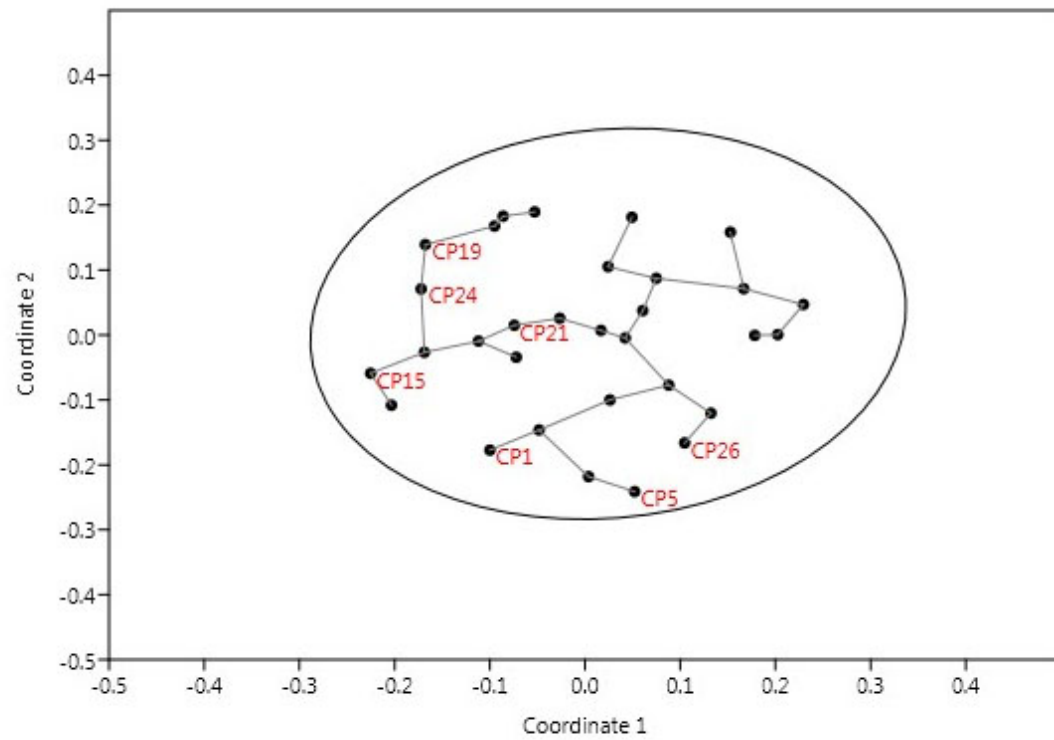
Supplementary Figure 2b: Diversity of bacterial species in CP samples identified in granulation tissue.



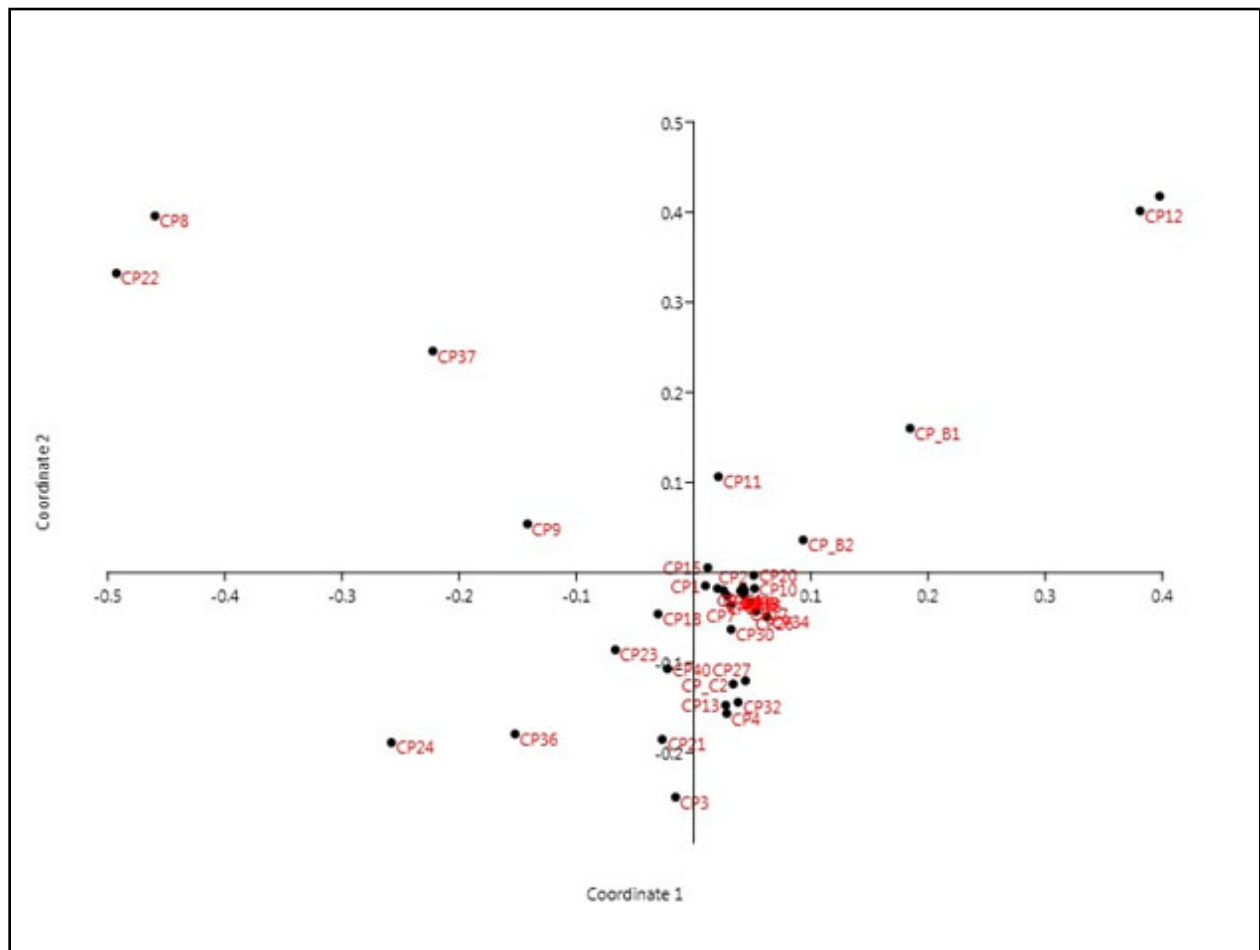
Supplementary Figure 3a: Scatter plot and correlation estimates of bacterial species abundance between HPV+ and HPV- samples in CP samples.



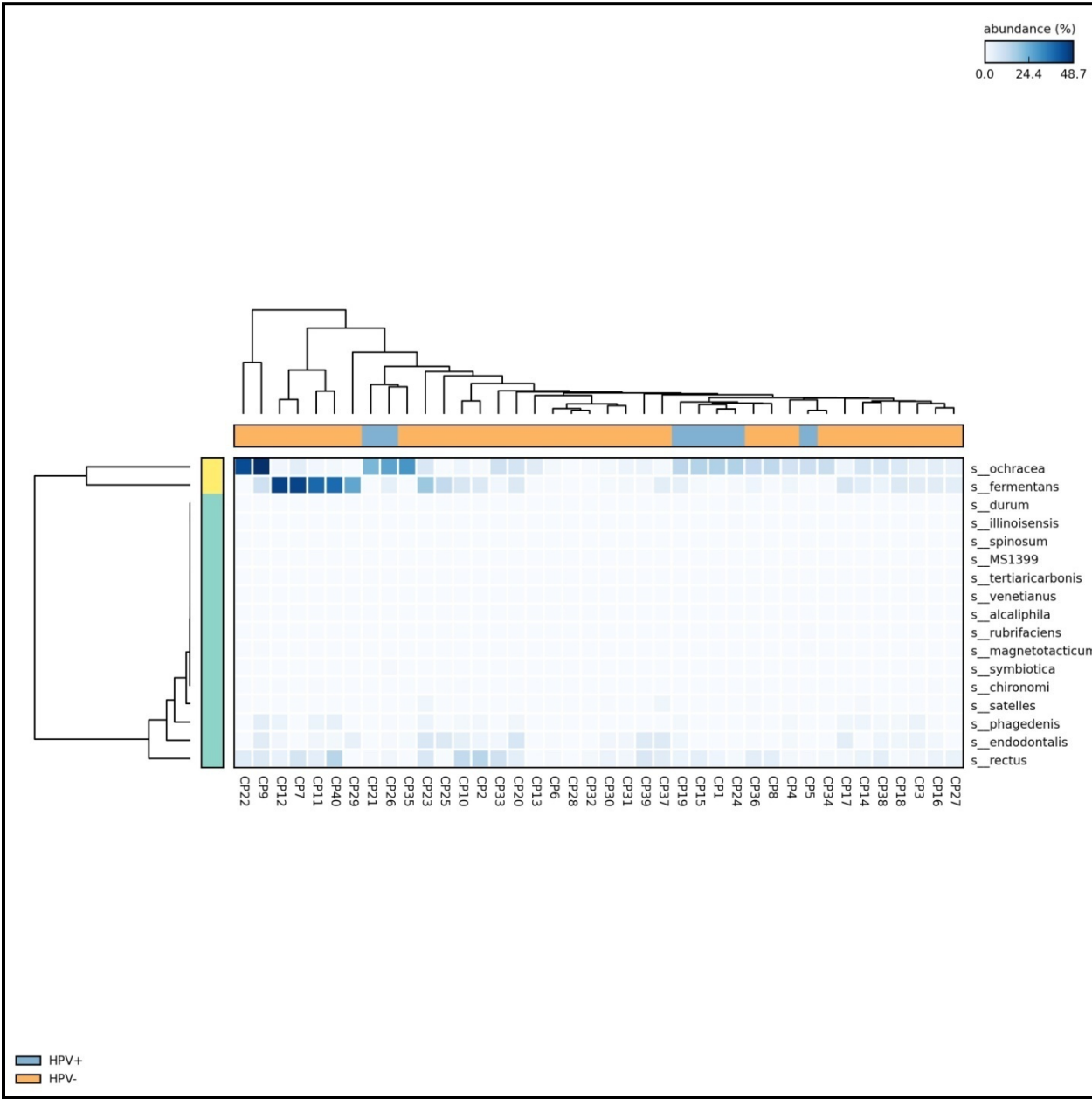
Supplementary Figure 3b: Beta diversity non-metric multidimensional scaling plot based on Theta YC two axis coordinate values obtained through mothur using Weighted UniFrac algorithm, showing distance or dissimilarity between each sample pair.



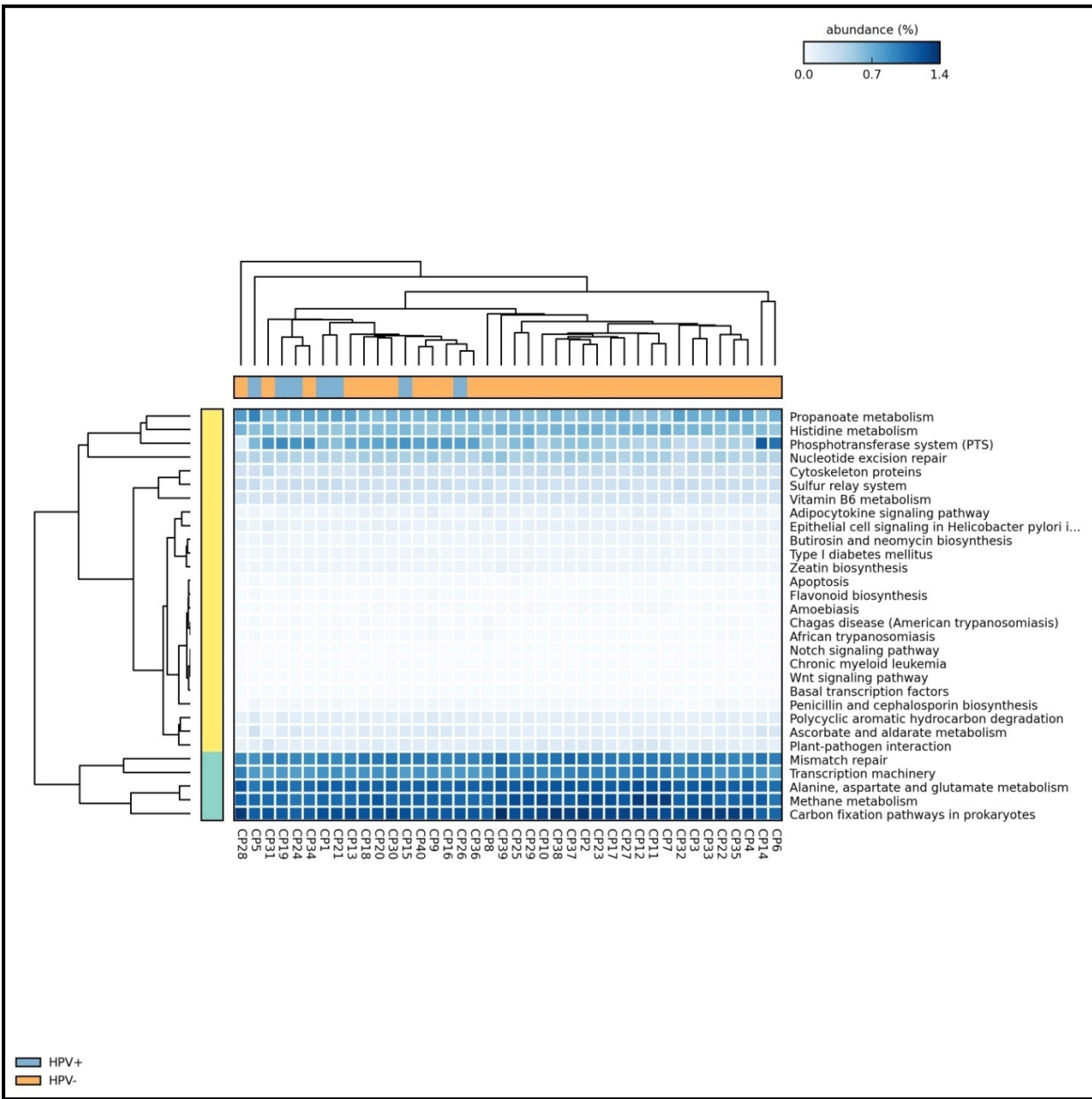
Supplementary Figure 3c: Principal coordinates analysis (PCoA) plot from ThetaYC values of beta diversity distance matrix. Where, coordinate 1 (X-axis) shows the maximum amount of variation present in the samples, with respect to coordinate 2 (Y-axis). Representation of OTU's between HPV+ and HPV - samples is randomly distributed.



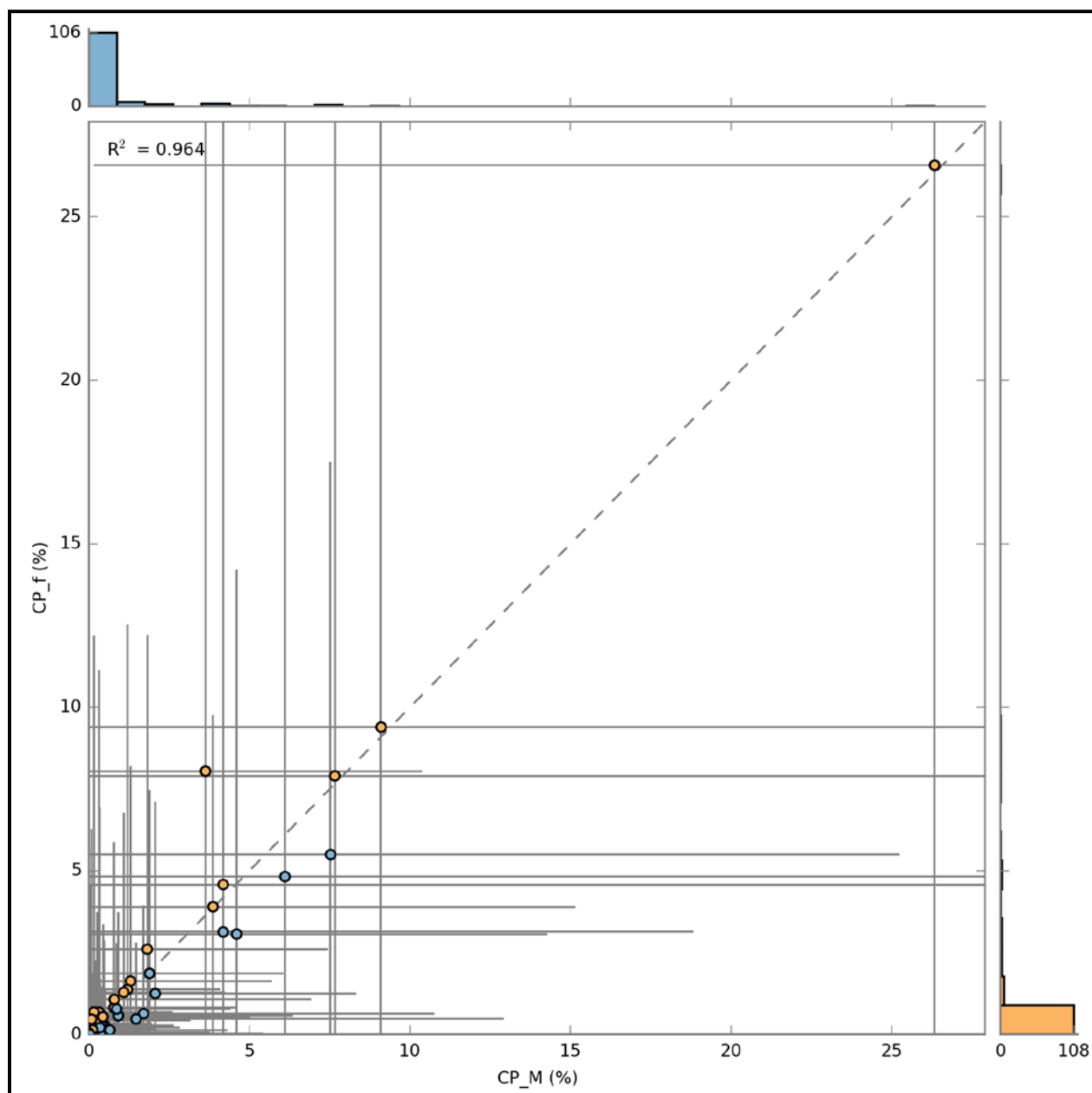
Supplementary Figure 4: Heat-map profile of abundance distribution of identified species in CP samples.



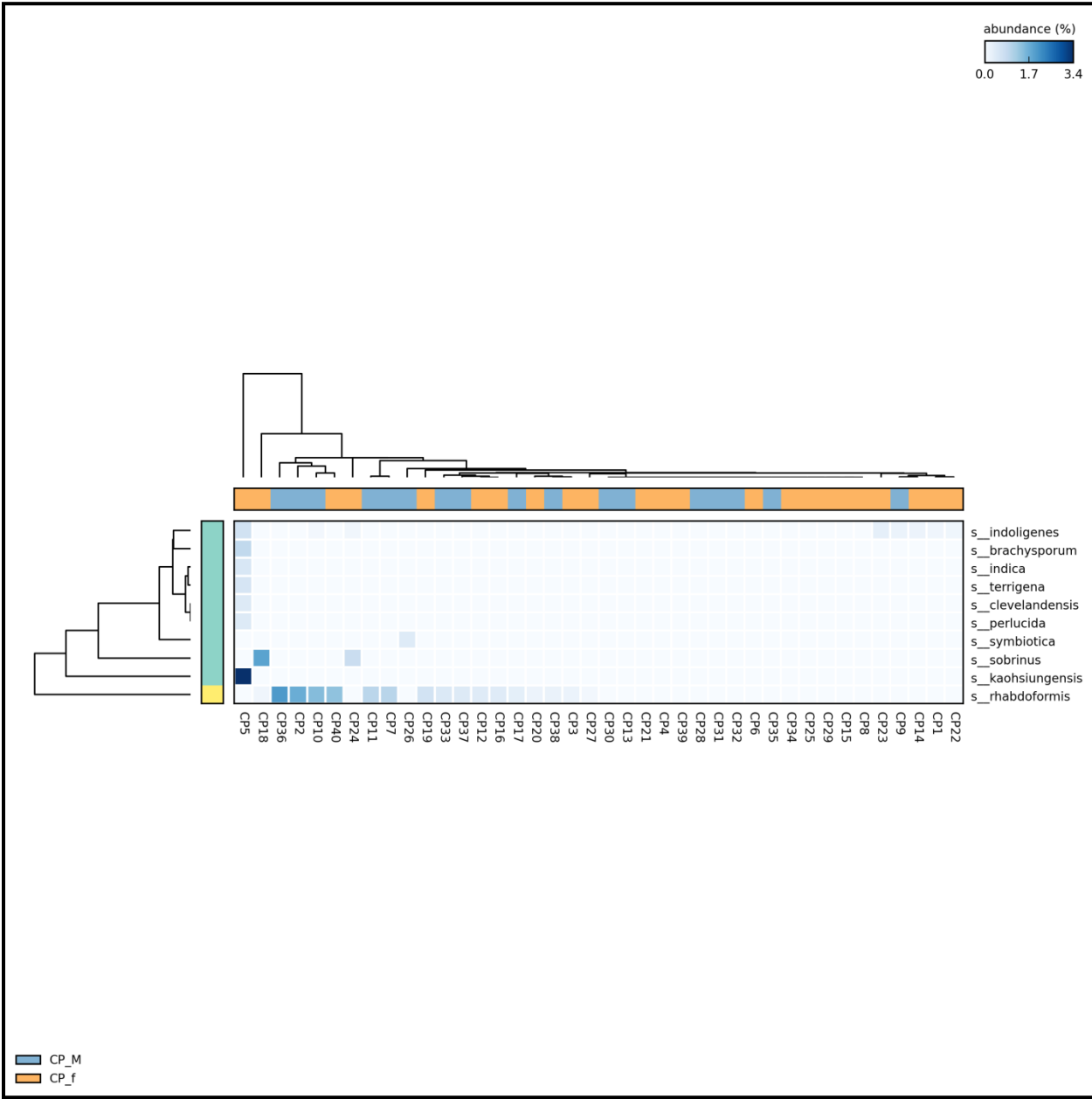
Supplementary Figure 5a: Scatter plot and correlation estimates of bacterial species functional predictions between HPV+ and HPV- samples in CP samples.



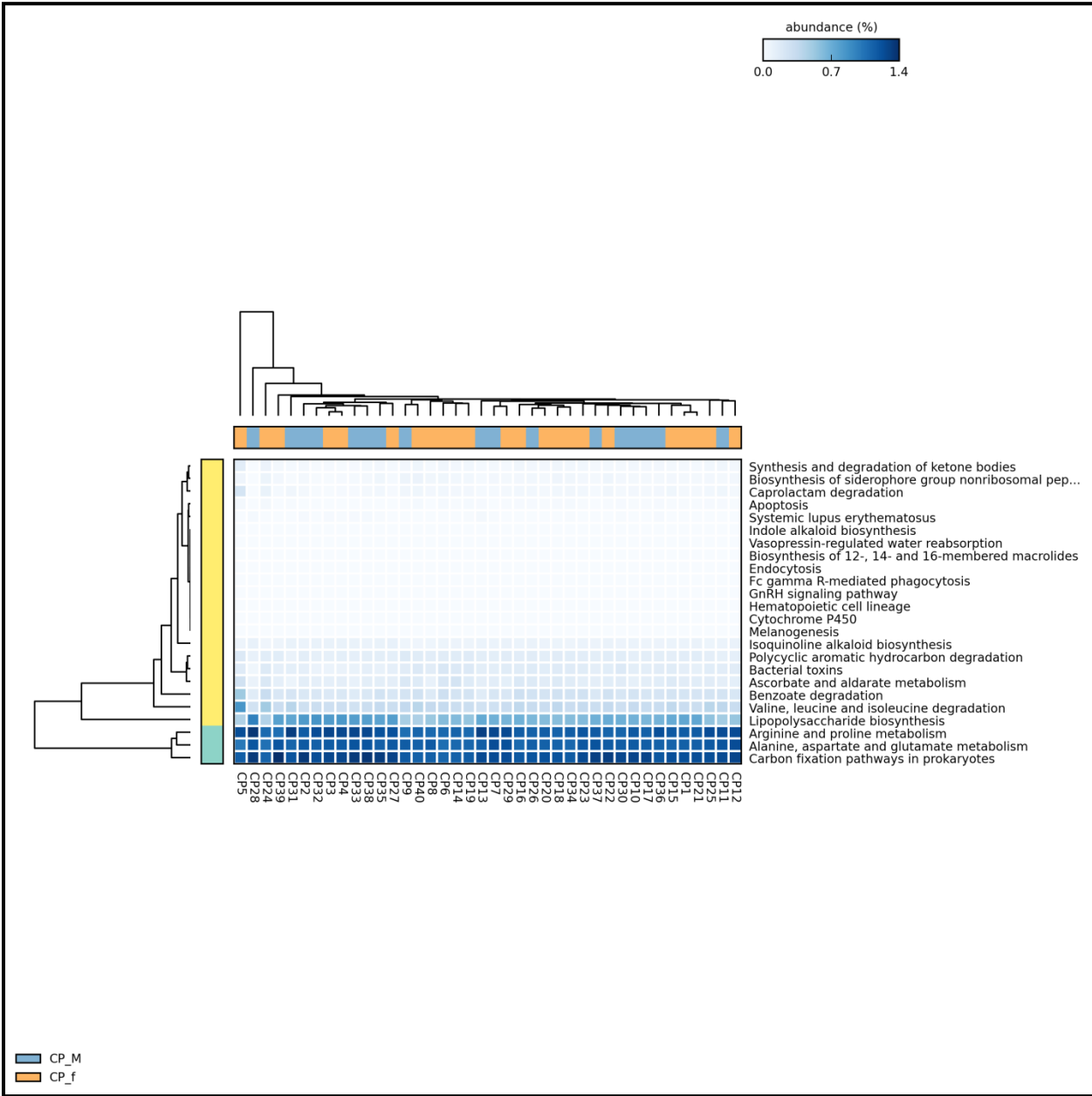
Supplementary Figure 6a: Scatter plot and correlation estimates of bacterial species abundance between Male and Female samples in CP samples.



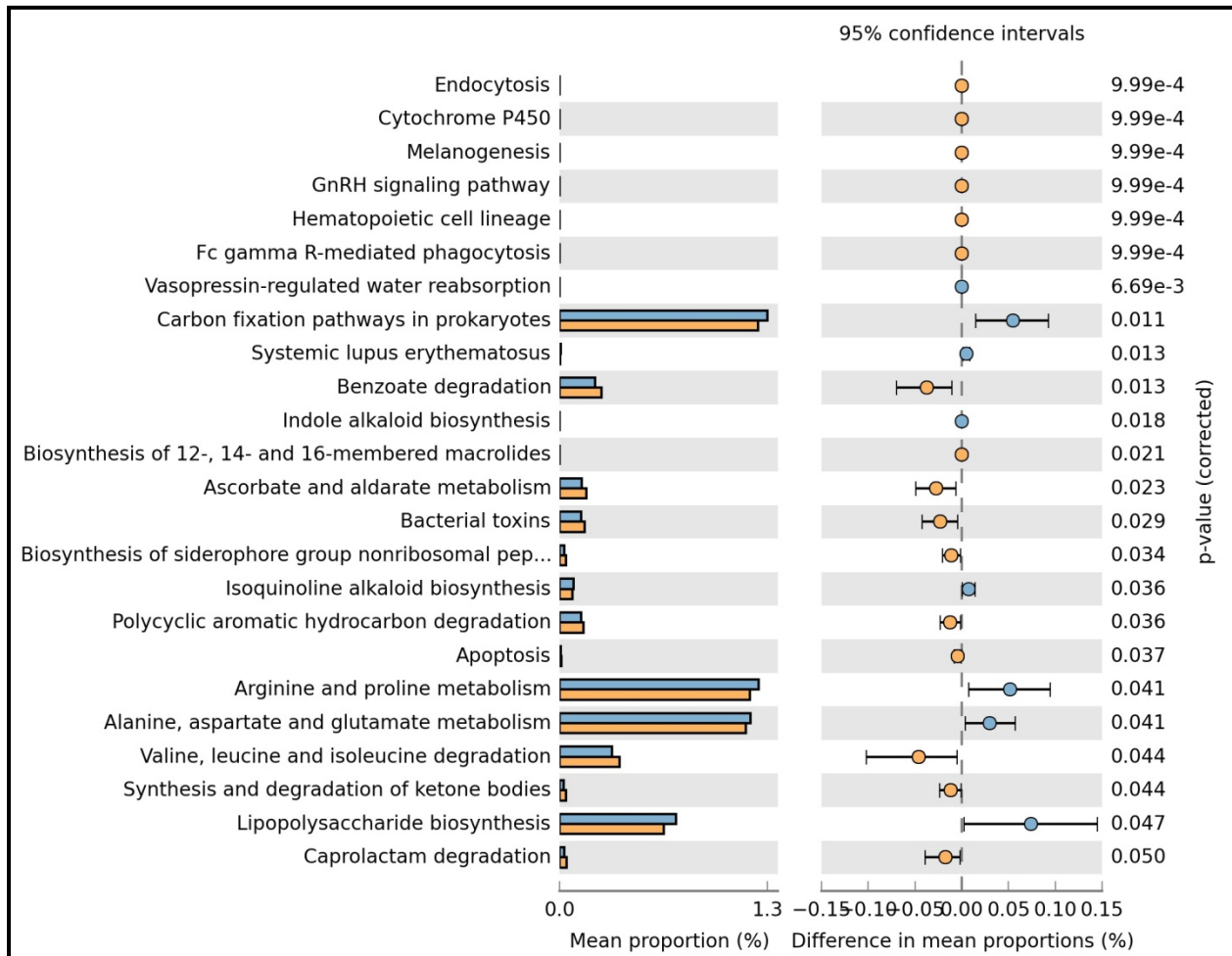
Supplementary Figure 6b: Heat-map profile of abundance distribution of identified species in Male and Female samples in CP samples.



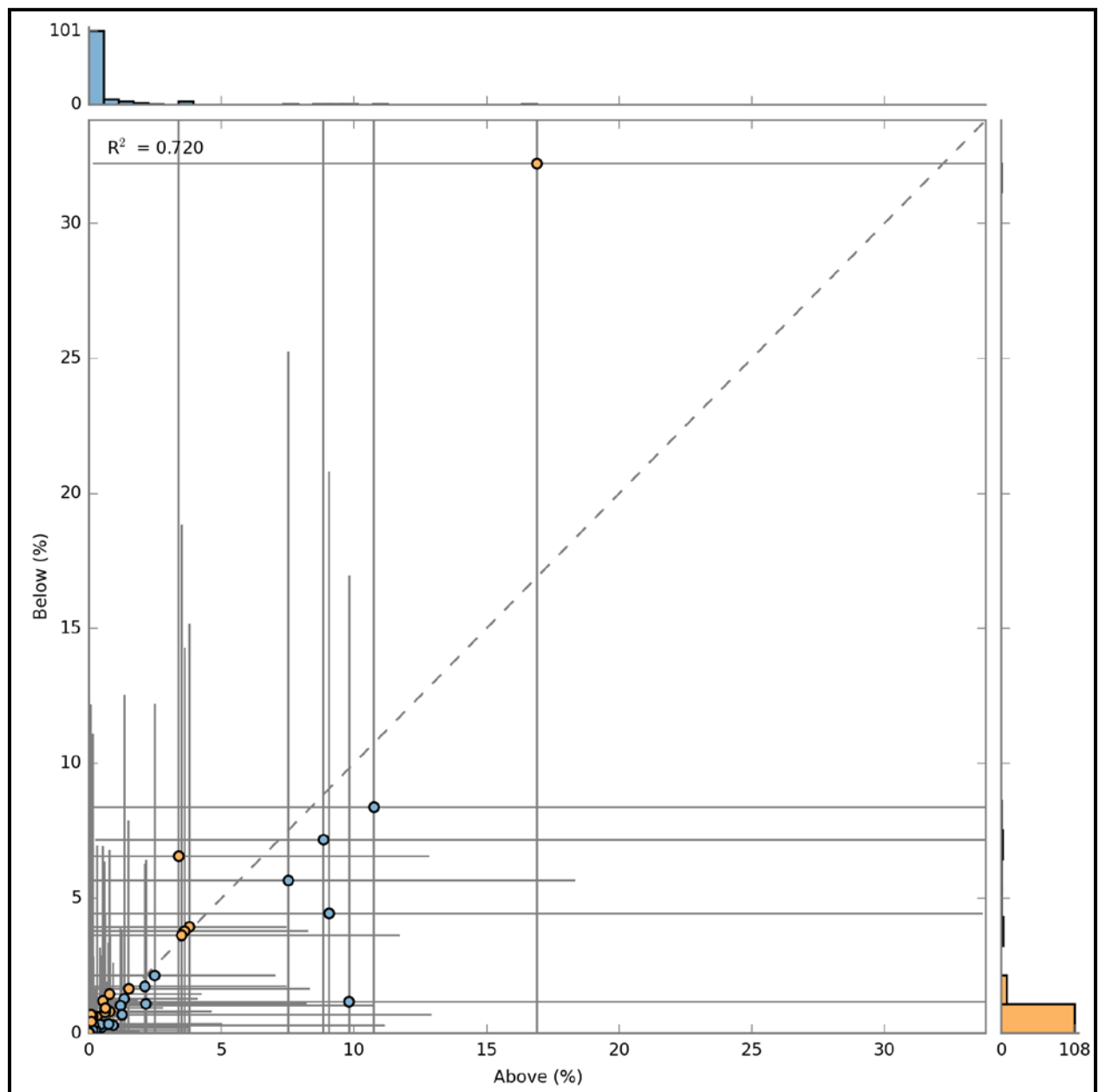
Supplementary Figure 7a: Heat-map profile of functional predictions of identified species in Male and Female samples in CP samples.



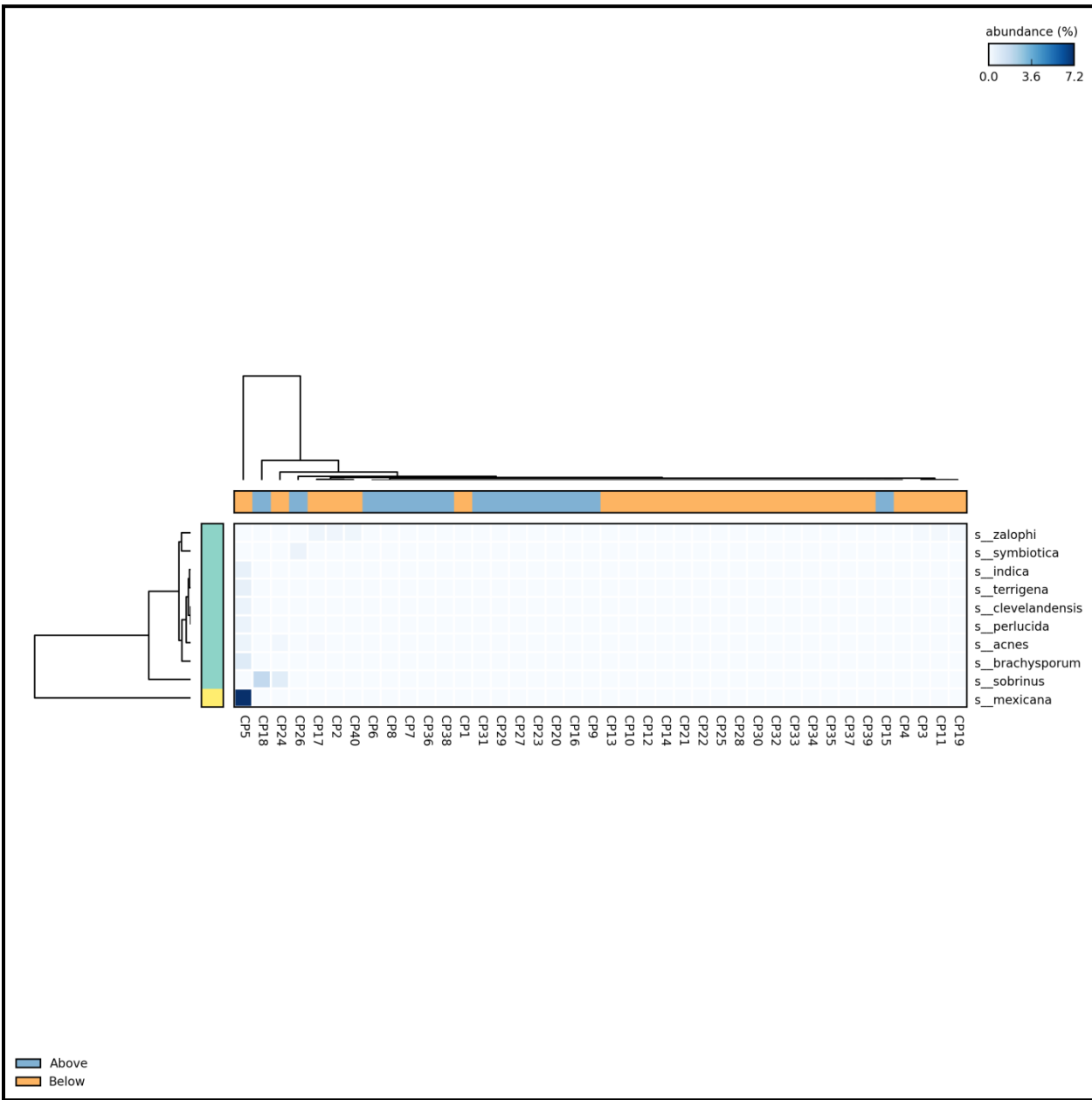
Supplementary Figure 7b: Mean proportion of bacterial species abundance between male and female CP samples. The significant difference observed between the two groups at 95% confidence level and $p < 0.05$ are reported.



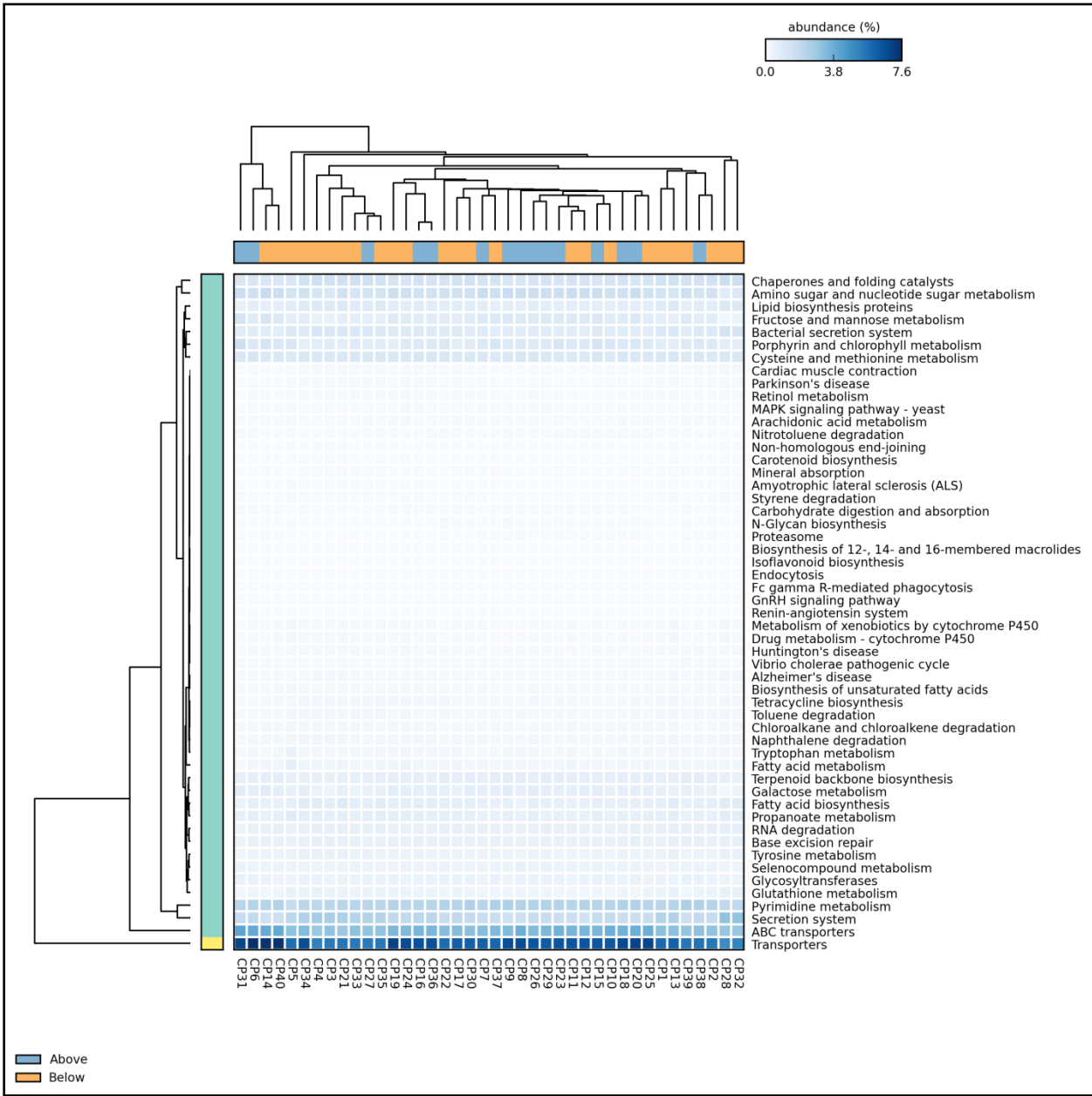
Supplementary Figure 8a: Scatter plot and correlation estimates of bacterial species abundance between Age above and below 40 samples in CP samples.



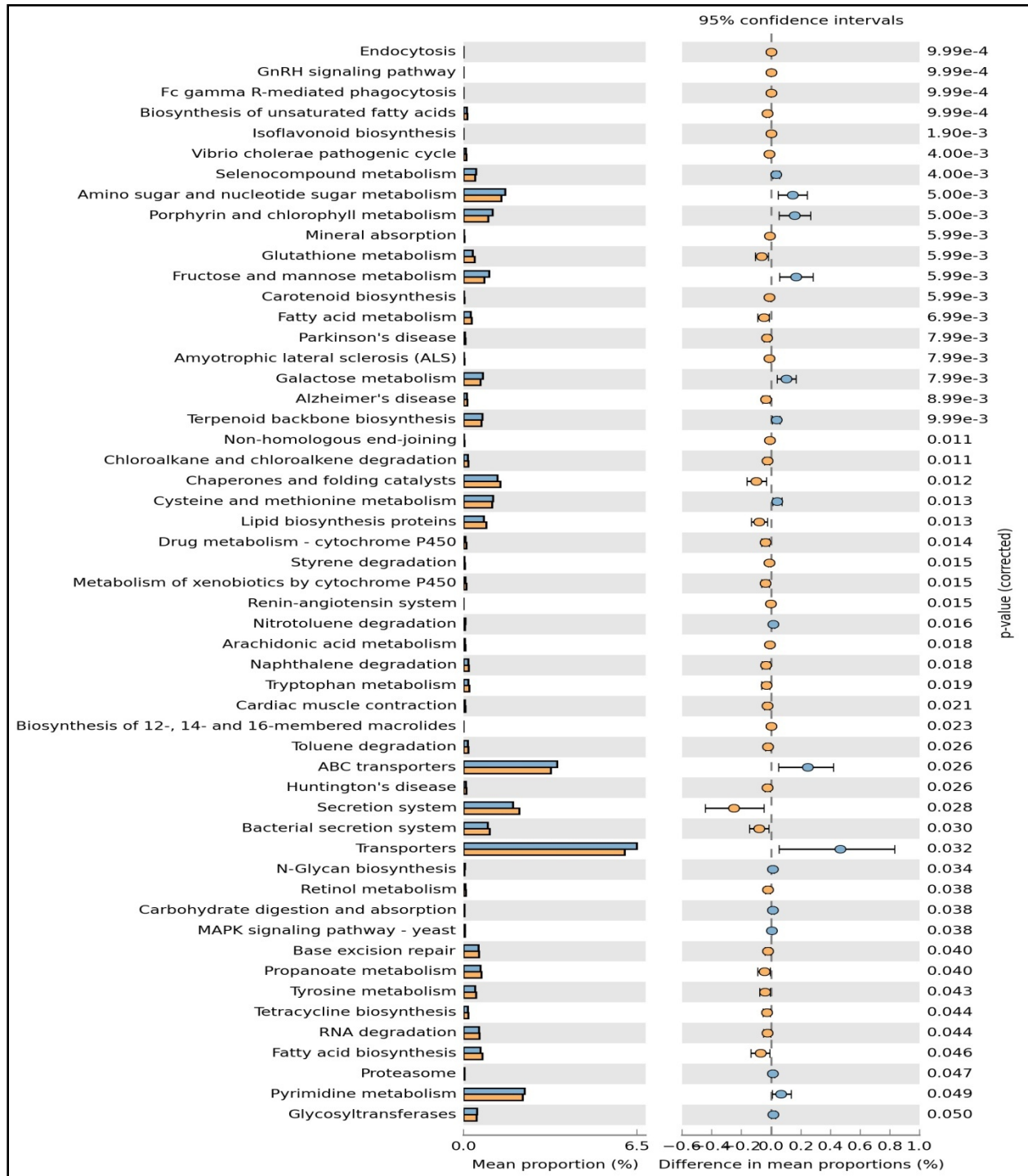
Supplementary Figure 8b: Heat-map profile of abundance distribution of identified species in Age above and below 40 samples in CP samples.



Supplementary Figure 9a: Heat-map profile of functional predictions of identified species in age above 40 (blue) and below 40 years (yellow) samples in CP samples.



Supplementary Figure 9b: Mean proportion of bacterial species abundance between age above 40 (blue bar) and below 40 years (yellow bar) samples in CP samples. The significant difference observed between the two groups at 95% confidence level and $p < 0.05$ are reported.



Supplementary Table 4: Observed number of OTUs at a 3% dissimilarity level and the diversity estimate database for species richness in forty CP samples.

Level_1	Level_2	Level_3	Level_4	Level_5	Level_6	Level_7	Observatio	CP1
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Propion g__Propior s__acnes	ID1000517	0						
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Prevote g__Prevote s__nanceie	ID1001920	1						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Lachnos g__Lachno; s__orale	ID1009036	1						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Veillone g__Veillone s__parvula	ID1009968	37						
k__Bacteri;p__Proteol c__Gamma o__Pseudo f__Moraxe g__Acineto s__schindle	ID1012848	0						
k__Bacteri;p__Proteol c__Gamma o__Pasteur f__Pasteur g__Haemo; s__parainfl	ID1016422	1						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Corynek g__Corynel s__durum	ID1017764	0						
k__Bacteri;p__Proteol c__Gamma o__Pasteur f__Pasteur g__Actinob s__paraha	ID1019193	0						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Veillone g__Veillone s__dispar	ID1019878	0						
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Lactoba g__Lactoba s__salivari	ID1021172	0						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Nocardi g__Rhodoc s__fascians	ID1021308	0						
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Prevote g__Prevote s__nigresce	ID1028549	6						
k__Bacteri;p__Bacterc c__Flavoba o__Flavoba f__Flavoba g__Capnoc s__ochrace	ID102901	109						
k__Bacteri;p__Proteol c__Alphapr o__Sphingc f__Sphingo g__Sphingc s__asaccha	ID102915	0						
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Lactoba g__Lactoba s__iners	ID1033552	0						
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Prevote g__Prevote s__pallens	ID1033790	1						
k__Bacteri;p__Proteol c__Gamma o__Xantho f__Xanthor g__Pseudo s__mexicar	ID104184	0						
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Strepto g__Strepto s__anginos	ID1047674	1						
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Strepto g__Strepto s__agalacti	ID1059977	u						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Peptost g__Peptost s__anaerok	ID105998	0						
k__Bacteri;p__Proteol c__Alphapr o__Rhizobi f__Methylo g__Methylo s__adhaesi	ID1074248	0						
k__Bacteri;p__Proteol c__Deltapr o__Desulfo f__Desulfo g__Desulfo s__rhabdof	ID10829	0						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Veillone g__Selenor s__noxia	ID1086250	6						
k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Neisser s__bacillifo	ID1106060	0						
k__Bacteri;p__Bacterc c__Flavoba o__Flavoba f__Flavoba g__Flavoba s__gelidila	ID1107152	0						
k__Bacteri;p__Proteol c__Gamma o__Pseudo f__Pseudor g__Pseudo s__alcalige	ID1107697	0						
k__Bacteri;p__Synergi c__Synergi o__Synergi f__Dethios g__Pyramic s__piscoler	ID1120396	0						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Dermab g__Devries s__agamar	ID1126230	0						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Microcc g__Rothia s__terrae	ID1128355	2						
k__Bacteri;p__Fusoba c__Fusoba o__Fusoba f__Leptotri g__Strepto s__monilif	ID11292	0						
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Enteroc g__Enteroc s__haemo	ID1129461	0						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Clostrid g__Protein s__ethanol	ID1133895	0						
k__Bacteri;p__Proteol c__Gamma o__Xantho f__Xanthor g__Pseudo s__kaohsiu	ID1135553	0						
k__Bacteri;p__Bacterc c__Flavoba o__Flavoba f__Flavoba g__Zhouia s__amyloly	ID1136009	3						
k__Bacteri;p__Proteol c__Betaprc o__Burkho f__Comam g__Aquinc s__tertiaric	ID1137566	0						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Mycoba g__Mycoba s__vaccae	ID113826	0						
k__Bacteri;p__Bacterc c__Flavoba o__Flavoba f__Flavoba g__Lutaone s__thermo	ID1138276	0						
k__Bacteri;p__Proteol c__Gamma o__Cardio f__Cardio b__Suttone s__ornitho	ID1139148	0						
k__Bacteri;p__Proteol c__Alphapr o__Sphingc f__Sphingo g__Sphingc s__mali	ID1139751	1						
k__Bacteri;p__Actinot;c__Corioba o__Corioba f__Corioba g__Paraeg s__hongko	ID1140324	0						
k__Bacteri;p__Proteol c__Gamma o__Alteron f__[Chrom; g__Rheinh s__perlucic	ID1141610	0						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Nocardi g__Marmo s__aequor	ID1142974	0						
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Veillone g__Selenor s__bovis	ID1143338	13						
k__Bacteri;p__Proteol c__Gamma o__Alteron f__Shewan g__Shewar s__algae	ID115224	2						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Actinon g__Actinon s__hyovagi	ID12569	7						
k__Bacteri;p__Proteol c__Epsilon o__Campyl f__Helicob; g__Wolinel s__succino	ID128801	0						
k__Bacteri;p__Actinot;c__Actinob o__Actinonf__Corynek g__Corynel s__pilosum	ID13467	0						

k__Bacteri;p__Proteolc__Alphaprc__Rhizobi f__Rhizobi g__Shinella s__granuli ID136134	0
k__Bacteri;p__Proteolc__Gammao__Xantho f__Xanthor g__Pseudo s__indica ID146193	0
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Strepto g__Strepto s__minor ID150451	0
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Aerococ g__Granuli s__balaenci ID15059	4
k__Bacteri;p__Proteolc__Gammao__Oceanc f__Halomo g__Halomc s__phoceaci ID153241	1
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Strepto g__Strepto s__equi ID15355	0
k__Bacteri;p__Proteolc__Betaprc o__Trembl f__Trembla g__Carson s__ruddii ID1543534	1
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Porphyr g__Macelli s__ferment ID158646	1
k__Bacteri;p__Verrucc c__Verrucc o__Verrucc f__Verruco g__Verrucc s__spinosu ID1596	0
k__Bacteri;p__Proteolc__Betaprc o__Burkho f__Comam g__Comam s__terrigen ID1639373	0
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Strepto g__Strepto s__sobrinu ID167118	0
k__Bacteri;p__Proteolc__Gammao__Enterol f__Enterob g__Shigella s__boydii ID1780074	0
k__Bacteri;p__Proteolc__Betaprc o__Burkho f__Comam g__[Polyan s__brachys ID181669	0
k__Bacteri;p__Proteolc__Gammao__Pseudo f__Moraxe g__Acineto s__venetia ID181761	0
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Lactoba g__Lactoba s__mucosa ID1911770	0
k__Bacteri;p__Actinoc c__Actinob o__Actinon f__Microcc g__Rothia s__amarae ID1925093	0
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Porphyr g__Porphy s__endodo ID1938	1
k__Bacteri;p__Proteolc__Gammao__Alteron f__Shewan g__Shewar s__amazon ID197265	0
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__[Parapr g__[Prevot s__tannera ID2047	5
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Prevote g__Prevote s__interme ID2218	25
k__Bacteri;p__Proteolc__Gammao__Pseudo f__Moraxe g__Moraxe s__ovis ID223485	0
k__Bacteri;p__Spiroch c__Spiroch o__Spiroch f__Spirochi g__Treponi s__socrans ID2310825	2
k__Bacteri;p__Actinoc c__Actinob o__Actinon f__Tsukam g__Gordon s__kropper ID236778	0
k__Bacteri;p__Proteolc__Alphaprc o__Rhizobi f__Methylc g__Magnet s__magnet ID237209	0
k__Bacteri;p__Actinoc c__Actinob o__Actinon f__Beutenl g__Beutenl s__caverna ID2500552	0
k__Bacteri;p__Actinoc c__Corioba o__Corioba f__Corioba g__Atopob s__rimae ID251702	0
k__Bacteri;p__Proteolc__Betaprc o__Burkho f__Comam g__Brachyr s__chirono ID265983	0
k__Bacteri;p__Elusimic c__Elusimic o__Elusimi f__Elusimic g__Elusimi s__minutu ID278595	0
k__Bacteri;p__Plancto c__Plancto o__Pirellul f__Pirellula g__plancto s__MS139 ID2905450	0
k__Bacteri;p__Spiroch c__Spiroch o__Spiroch f__Spirochi g__Treponi s__amylov ID29328	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Veillone g__Aceton s__longum ID3107842	0
k__Bacteri;p__Bacterc c__Flavoba o__Flavoba f__Flavoba g__Capnoc s__canimo ID314128	0
k__Bacteri;p__Proteolc__Gammao__Alteron f__[Chromi g__Rheinh s__nanhaie ID325282	0
k__Bacteri;p__Teneric c__Mollicu o__Mycopl f__Mycopli g__Mycopl s__zalophi ID336960	0
k__Bacteri;p__Bacterc c__Bactero o__Bacterc f__Bactero g__Bacterc s__nordii ID344827	0
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Leucon g__Weissel s__parame ID352468	0
k__Bacteri;p__Firmicu c__Bacilli o__Bacillal f__Planoco g__Staphyl s__saprop ID354839	0
k__Bacteri;p__Proteolc__Gammao__Pasteur f__Pasteur g__Galliba s__genomc ID359719	0
k__Bacteri;p__Actinoc c__Actinob o__Bifidob f__Bifidoba g__Bifidob s__bifidum ID365385	0
k__Bacteri;p__Spiroch c__Spiroch o__Spiroch f__Spirochi g__Treponi s__phagedi ID3928	0
k__Bacteri;p__Proteolc__Gammao__Aeromc f__Aeromo g__Aeromc s__sanarell ID4006670	0
k__Bacteri;p__Firmicu c__Erysipel o__Erysipe f__Erysipel g__Bulleidi s__moorei ID4030370	0
k__Bacteri;p__Proteolc__Gammao__Pseudo f__Moraxe g__Enhydr s__aerosac ID407441	0
k__Bacteri;p__Proteolc__Epsilon o__Campyl f__Campyl g__Campyl s__rectus ID416537	15
k__Bacteri;p__Proteolc__Betaprc o__Neisser f__Neisseri g__Neisser s__shayega ID4233669	0
k__Bacteri;p__Proteolc__Gammao__Vibriof__Pseudo g__Vibrio s__mimicu ID4270835	0
k__Bacteri;p__Bacterc c__Flavoba o__Flavoba f__[Weeks g__Bergey s__zoohelc ID4297519	1
k__Bacteri;p__Proteolc__Gammao__Pseudo f__Pseudor g__Pseudo s__cuatroc ID4301996	0
k__Bacteri;p__Proteolc__Gammao__Xantho f__Xanthor g__Stenotr s__rhizoph ID4331923	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Lachnos g__Johnsor s__ignava ID4332505	0

k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Neisser s__wadswc	ID4335663	0
k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Neisser s__weaveri	ID4337487	1
k__Bacteri;p__Fusoba c__Fusoba o__Fusoba f__Leptotri g__Sebalde s__termitic	ID4358870	15
k__Bacteri;p__Proteol c__Alphapr o__Rhizobi f__Bradyrh g__Afipia s__clevelar	ID4367627	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Clostrid g__Clostrid s__caminit	ID4368040	0
k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Neisser s__oralis	ID4373910	368
k__Bacteri;p__Proteol c__Betaprc o__Burkho f__Comam g__Leptoth s__ginseng	ID4395318	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Clostrid g__Clostrid s__aciduric	ID4462654	0
k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Kingella s__potus	ID4476050	0
k__Bacteri;p__Synergi c__Synergi o__Synergi f__Dethios g__Jonquei s__anthrop	ID484439	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Lachnos g__Moryell s__indolige	ID514200	1
k__Bacteri;p__Plancto c__Plancto o__Gemma f__Isospha g__Nostoc s__limicola	ID51778	0
k__Bacteri;p__Proteol c__Gamma o__Cardiok f__Cardiob g__Cardiok s__valvaru	ID544152	8
k__Bacteri;p__Proteol c__Alphapr o__Rhizobi f__Beijerin g__Chelato s__asaccha	ID548469	0
k__Bacteri;p__Proteol c__Gamma o__Pseudo f__Moraxe g__Alkanin s__illinoise	ID552246	0
k__Bacteri;p__Proteol c__Gamma o__Enterok f__Enterob g__Serratia s__symbiot	ID576678	0
k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Neisser s__elongat	ID6402	3
k__Bacteri;p__Proteol c__Gamma o__Pseudo f__Pseudor g__Pseudo s__compos	ID673640	0
k__Bacteri;p__Firmicu c__Bacilli o__Lactoba f__Aerococ g__Abiotro s__defectiv	ID678690	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Veillone g__Anaero s__glycerin	ID731367	6
k__Bacteri;p__Firmicu c__Erysipel o__Erysipe f__Erysipel g__Anaero s__furcosa	ID761476	0
k__Bacteri;p__Proteol c__Alphapr o__Rhodos f__Rhodos g__Reyran s__massilie	ID801271	0
k__Bacteri;p__Proteol c__Alphapr o__Rhodos f__Acetoba g__Acidispl s__rubrifac	ID806916	0
k__Bacteri;p__Proteol c__Gamma o__Pseudo f__Pseudor g__Pseudo s__alcaliph	ID83866	0
k__Bacteri;p__Firmicu c__Clostrid o__Clostrid f__Lachnos g__Shuttle s__satelles	ID851782	0
k__Bacteri;p__Proteol c__Betaprc o__Neisser f__Neisseri g__Kingella s__denitrifi	ID851932	29
k__Bacteri;p__Proteol c__Gamma o__Pasteur f__Pasteur g__Pasteur s__aeroger	ID9498	0
k__Bacteri;p__Proteol c__Gamma o__Pasteur f__Pasteur g__Actinob s__delphin	ID9510	0

tes. The high quality seuenes were processed through Mothur package against gg_13_8_99.gg.tax

CP10	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18
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14	6	15	1	8	22	25	1	3
103	8	11	109	5	258	225	23	194
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0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	2
0	0	0	0	0	0	0	0	0
65	60	150	3	64	29	12	0	11
23	10	23	78	42	194	69	30	46
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1	0	0	0	0	0	0	0	0
0	5	14	0	0	0	1	1	2
0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	2	0	0
7	12	15	166	25	25	91	38	38
13	19	42	0	0	0	1	5	1
0	0	0	0	0	0	0	0	0
17	7	6	0	0	0	6	4	1
2	7	10	19	89	307	4	1	0
0	0	0	0	0	0	0	0	13
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
18	3	13	0	0	0	2	0	0
0	0	0	0	0	0	0	0	0
2	0	1	3	2	5	0	1	15
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1	0	0	4	2	0	1	0	2
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0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	2	2	0	0	0	3	1	2
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0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
235	95	148	21	83	132	8	22	6
1	2	1	0	0	0	0	1	2
0	1	2	9	5	16	3	0	14
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0	1	0	0	0	3	0	0	0

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0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	6	23	1	9	18	5	5
3	8	7	1	1	5	3	6	0
0	0	0	0	0	0	0	0	0
2	5	5	63	1	5	5	1	7
84	275	669	3	28	10	80	95	45
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0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	13
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0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0
46	12	25	0	1	1	18	59	13
0	0	0	0	0	0	1	0	0
48	57	105	0	15	5	13	15	3
82	1	4	0	8	1	5	384	89
0	0	0	0	0	0	0	0	0
28	28	58	0	11	3	1	18	1
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0	0	0	0	0	0	0	0	0
0	0	3	0	5	1	2	0	0
4	2	4	0	0	0	3	0	0
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0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	1	36	2
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0	0	0	0	0	1	0	0	0
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0	1	0	0	0	0	0	4	0
1	0	7	0	0	0	0	3	0
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10	22	37	1	11	1	5	22	6
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144	34	48	1	16	56	41	15	4
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0	1	1	9	0	0	5	2	0
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0	0	0	0	0	0	0	0	0
10	3	4	1	0	2	1	13	0

CP19	CP2	CP20	CP21	CP22	CP23	CP24	CP26	CP27	
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	0	6	0	1	0	0	0	0	5
	4	2	14	1	6	7	4	11	2
	20	0	15	7	158	13	188	50	29
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	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	3	0	0
	0	0	0	0	0	0	2	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	27	66	15	1	17	77	45	12	18
	108	2	44	623	332	47	137	192	44
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	0	0	0	0	0	0	3	0	10
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	0
	75	3	28	91	25	18	65	39	30
	1	0	0	0	1	9	4	2	0
	0	0	0	0	0	0	0	0	0
	5	6	1	0	0	0	0	0	1
	0	5	0	0	25	68	5	5	7
	2	5	0	40	0	1	1	0	1
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	27	0
	0	0	0	0	0	0	0	0	0
	9	0	0	4	6	1	10	0	2
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	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	6	0	5	1	1	0	5	6	0
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	0	0	0	0	1	0	0	0	0
	1	0	0	0	1	0	7	0	1
	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	33	9	94	0	15	66	3	24	44
	1	0	0	0	0	1	3	1	0
	15	0	12	0	12	3	11	4	0
	0	1	0	0	0	0	0	0	0
	0	0	2	0	0	1	2	0	0

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10	2	3	41	6	4	53	3	10
3	1	0	0	0	4	11	0	0
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2	3	4	28	10	4	10	3	11
32	22	33	1	0	121	5	29	58
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0	0	0	0	0	0	7	0	0
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15	8	40	2	0	46	1	4	1
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0	24	10	0	0	6	1	60	0
77	35	61	1	3	1	4	2	42
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5	12	13	0	0	6	1	12	1
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0	0	0	0	0	0	0	0	0
3	0	1	0	2	5	2	7	1
0	0	1	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
10	5	9	0	0	0	1	2	1
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1	0	1	3	0	0	0	0	0
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1	1	0	0	0	0	0	0	0
1	5	1	0	0	3	0	0	2
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0	0	0	0	0	0	0	0	0
0	0	0	0	0	2	0	0	0
7	5	9	0	0	16	1	2	2
0	0	0	0	0	0	0	0	0
0	0	0	0	3	9	6	0	0
0	0	0	0	0	0	0	0	0
24	50	24	14	43	47	6	12	36
0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0
8	0	1	1	1	1	9	8	13
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4	0	6	0	1	11	0	0	3

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0	0	0	0	0	0	0	0	0
4	2	0	1	1	14	12	1	1
1	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
47	1	0	31	5	0	0	1	8
104	3	1	0	3	1	0	9	22
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54	7	2	0	3	0	1	1	28
0	0	0	0	0	0	0	0	0
67	0	0	0	2	0	0	3	4
43	23	8	0	16	1	1	6	137
0	2	0	0	0	0	0	0	0
12	0	0	0	7	0	0	0	4
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53	0	0	0	0	0	0	1	0
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0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0
29	12	2	11	20	3	0	22	25
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
7	1	0	3	1	9	1	0	2
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0	0	0	0	2	0	0	0	1

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3	0	0	0	3	2	1	1	3
29	7	0	2	4	2	0	3	3
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0	0	0	0	1	0	0	0	1
1251	122	1	1260	72	233	63	110	6
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0	0	0	0	0	0	0	0	0
34	1	1	1	8	10	0	58	13
0	0	0	0	0	0	0	0	0
1	0	0	6	0	0	11	5	0
2	24	1	1	0	2	5	12	3
0	0	0	0	0	0	0	0	2
4	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	1	8
19	2	1	6	8	3	0	19	2
0	0	0	1	0	0	0	0	2
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CP38	CP39	CP4	CP40	CP5	CP6	CP7	CP8	CP9	
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	0	1	0	0	15	0	0	0	0
	18	2	1	4	64	2	12	4	2
	42	0	1	34	29	363	17	52	3
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	0	0	0	0	0	0	0	0	0
	0	0	0	0	5	0	0	0	0
	2	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	2	0	0	0	0
	51	7	0	0	0	24	64	32	0
	35	21	93	4	219	12	49	98	244
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	0	0	0	0	0	0	0	0	0
	0	7	0	0	258	0	0	0	0
	0	0	0	0	153	0	0	0	0
	0	0	0	0	0	0	1	1	2
	25	14	19	35	37	80	6	11	9
	0	6	0	1	0	1	0	0	1
	0	0	0	0	0	0	0	0	0
	1	0	0	5	0	0	10	0	0
	24	3	0	0	0	0	4	282	8
	2	4	1	0	0	0	0	0	0
	0	0	0	0	1	0	0	0	0
	0	0	0	0	8	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	1	0	1	12	0	7	5	10	25
	0	0	0	0	1	0	0	0	0
	0	0	0	2	1	0	0	0	0
	0	0	0	0	0	0	1	0	0
	0	0	0	0	72	0	0	0	0
	5	1	15	0	0	0	4	1	6
	0	0	0	0	3	0	0	0	0
	0	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	1	0	0	1	16	0	2	0	1
	0	0	0	0	0	0	0	0	0
	0	0	0	0	9	0	0	0	0
	0	0	0	0	1	0	0	0	0
	39	82	1	3	129	1	34	103	14
	0	0	0	0	97	0	2	0	0
	0	0	0	0	9	5	0	2	2
	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	8	0

0	0	0	0	1	0	0	0	0
0	0	0	0	11	0	0	0	0
0	0	0	0	0	0	0	0	0
8	2	2	2	74	8	2	0	0
0	0	0	0	235	3	1	2	2
0	0	1	2	0	3	0	0	1
0	5	11	5	12	6	8	21	3
13	4	18	135	2	3	451	2	49
0	0	0	0	3	0	0	0	0
0	0	0	0	12	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0
0	0	0	0	19	0	0	0	0
0	0	0	0	4	0	0	0	0
0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0
10	45	10	4	0	4	0	0	27
0	0	0	0	3	0	0	0	0
14	39	0	0	0	1	0	36	6
22	346	6	7	28	6	1	8	4
0	0	0	0	0	0	0	0	0
3	8	5	4	0	0	108	3	3
0	0	0	0	2	0	0	0	0
0	0	0	0	5	0	0	0	1
0	0	0	0	0	0	0	1	0
3	4	0	0	1	0	2	2	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	3	0	0	0	0
0	3	0	3	0	0	0	0	1
0	0	0	0	0	0	0	0	0
1	0	2	0	1	0	1	0	0
0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0
2	2	2	0	5	1	0	0	0
0	0	0	0	1	0	0	0	0
0	0	0	0	1	2	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0
5	1	10	13	0	1	0	0	23
0	0	0	0	1	0	0	0	0
1	0	0	0	1	1	0	0	0
0	0	0	0	0	0	0	0	0
19	55	10	51	10	5	83	34	32
0	0	0	0	0	0	0	0	0
0	0	0	0	2	0	0	0	0
6	53	1	0	3	0	1	0	1
0	0	0	0	1	0	0	0	0
0	0	0	0	1	0	0	0	0
0	3	0	1	0	0	0	0	3

Total OTUs

11
41
329
2072
0
2
3
7
2
3
2
926
3177
2
1
310
153
70
1224
121
0
86
967
87
1
8
63
0
132
1
3
1
72
94
3
1
1
1
46
1
9
1
1717
115
141
2
20

1
11
0
338
298
10
334
2420
3
12
20
1
19
4
2
2
491
6
539
1491
3
357
2
6
1
56
16
1
3
86
0
11
0
10
36
1
3
1
4
264
1
35
0
1053
4
2
150
1
1
69

1
74
760
9
24
10557
8
3
1
4
22
2
91
2
8
3
197
8
286
447
3
53
5
4
27
324
0
0