

Supplementary Table S1a Comparison of Shannon-Wiener diversity between individual cohorts. Adjusted *P*-values indicate the level of significant for multivariate comparison testing.

Comparison Groups	<i>P</i> -Value	<i>P</i> -adj (Bonferroni)	Level of Signif.
AN vs AKG	1.99E-01	1.00E+00	ns
AN vs BE	5.23E-01	1.00E+00	ns
AN vs BM	2.85E-04	2.22E-02	
AN vs CF	2.68E-04	2.09E-02	
AN vs CFMW	8.59E-02	1.00E+00	ns
AN vs PT	2.20E-16	1.72E-14	
AN vs HP	5.70E-10	4.45E-08	
AN vs SAL	2.20E-16	1.72E-14	
AN vs SubP	2.20E-16	1.72E-14	
AN vs SupP	2.20E-16	1.72E-14	
AN vs TH	2.20E-16	1.72E-14	
AN vs TD	2.20E-16	1.72E-14	
AKG vs BE	3.06E-01	1.00E+00	ns
AKG vs BM	5.24E-03	4.09E-01	ns
AKG vs CF	3.13E-06	2.44E-04	
AKG vs CFMW	3.60E-01	1.00E+00	ns
AKG vs PT	2.20E-16	1.72E-14	
AKG vs HP	4.22E-09	3.29E-07	
AKG vs SAL	2.20E-16	1.72E-14	
AKG vs SubP	2.20E-16	1.72E-14	
AKG vs SupP	2.20E-16	1.72E-14	
AKG vs TH	2.20E-16	1.72E-14	
AKG vs TD	2.20E-16	1.72E-14	
BE vs BM	2.12E-02	1.00E+00	ns
BE vs CF	2.83E-01	1.00E+00	ns
BE vs CFMW	2.28E-01	1.00E+00	ns
BE vs PT	8.85E-10	6.90E-08	
BE vs HP	9.09E-05	7.09E-03	
BE vs SAL	3.13E-12	2.44E-10	
BE vs SubP	2.19E-10	1.71E-08	
BE vs SupP	2.73E-09	2.13E-07	
BE vs TH	5.42E-10	4.23E-08	
BE vs TD	2.33E-09	1.82E-07	
BM vs CF	7.91E-11	6.17E-09	
BM vs CFMW	3.64E-01	1.00E+00	ns
BM vs PT	8.11E-14	6.33E-12	
BM vs HP	1.00E-03	7.80E-02	ns
BM vs SAL	2.20E-16	1.72E-14	
BM vs SubP	5.04E-16	3.93E-14	
BM vs SupP	5.66E-14	4.41E-12	
BM vs TH	1.09E-14	8.50E-13	
BM vs TD	2.93E-13	2.29E-11	
CF vs CFMW	8.17E-04	6.37E-02	ns
CF vs PT	2.20E-16	1.72E-14	
CF vs HP	2.20E-16	1.72E-14	
CF vs SAL	2.20E-16	1.72E-14	
CF vs SubP	2.20E-16	1.72E-14	
CF vs SupP	2.20E-16	1.72E-14	
CF vs TH	2.20E-16	1.72E-14	
CF vs TD	2.20E-16	1.72E-14	
CFMW vs PT	6.39E-08	4.98E-06	
CFMW vs HP	3.39E-03	2.64E-01	ns

CFMW vs SAL	1.23E-10	9.59E-09	
CFMW vs SubP	1.06E-08	8.27E-07	
CFMW vs SupP	3.29E-08	2.57E-06	
CFMW vs TH	1.54E-08	1.20E-06	
CFMW vs TD	5.64E-08	4.40E-06	
PT vs HP	1.26E-06	9.83E-05	
PT vs SAL	2.53E-05	1.97E-03	
PT vs SubP	2.47E-02	1.00E+00	ns
PT vs SupP	5.86E-01	1.00E+00	ns
PT vs TH	6.86E-01	1.00E+00	ns
PT vs TD	1.98E-01	1.00E+00	ns
HP vs SAL	1.50E-14	1.17E-12	
HP vs SubP	6.55E-10	5.11E-08	
HP vs SupP	6.04E-07	4.71E-05	
HP vs TH	1.21E-07	9.44E-06	
HP vs TD	1.71E-05	1.33E-03	
SAL vs SubP	6.55E-10	5.11E-08	
SAL vs SupP	6.04E-07	4.71E-05	
SAL vs TH	1.21E-07	9.44E-06	
SAL vs TD	1.71E-05	1.33E-03	
SubP vs SupP	1.59E-01	1.00E+00	ns
SubP vs TH	6.61E-02	1.00E+00	ns
SubP vs TD	4.89E-04	3.81E-02	ns
SupP vs TH	8.65E-01	1.00E+00	ns
SupP vs TD	1.04E-01	1.00E+00	ns
TH vs TD	8.01E-02	1.00E+00	ns

Supplementary Table S1b Comparison of taxa richness between individual cohorts. Adjusted *P*-values indicate the level of significant for multivariate comparison testing.

Comparison Groups	P-Value	P-adj (Bonferroni)	Level of Signif.
AN vs AKG	7.71E-03	6.01E-01	ns
AN vs BM	1.05E-04	8.18E-03	
AN vs BE	6.04E-01	1.00E+00	ns
AN vs CF	9.10E-04	7.10E-02	ns
AN vs CFMW	9.62E-01	1.00E+00	ns
AN vs HP	8.45E-10	6.59E-08	
AN vs PT	1.24E-13	9.67E-12	
AN vs SAL	1.82E-13	1.42E-11	
AN vs SubP	1.64E-10	1.28E-08	
AN vs SupP	1.51E-07	1.18E-05	
AN vs TD	1.69E-08	1.32E-06	
AN vs TH	2.57E-12	2.00E-10	
AKG vs BM	2.76E-13	2.15E-11	
AKG vs BE	2.91E-01	1.00E+00	ns
AKG vs CF	1.16E-01	1.00E+00	ns
AKG vs CFMW	8.96E-02	1.00E+00	ns
AKG vs HP	1.21E-07	9.44E-06	
AKG vs PT	2.20E-16	1.72E-14	
AKG vs SAL	2.20E-16	1.72E-14	
AKG vs SubP	2.20E-16	1.72E-14	
AKG vs SupP	2.20E-16	1.72E-14	
AKG vs TD	2.20E-16	1.72E-14	
AKG vs TH	2.20E-16	1.72E-14	
BM vs BE	5.11E-03	3.98E-01	ns

BM vs CF	1.56E-12	1.22E-10	
BM vs CFMW	1.32E-02	1.00E+00	ns
BM vs HP	1.02E-03	7.92E-02	ns
BM vs PT	2.00E-07	1.56E-05	
BM vs SAL	4.12E-09	3.21E-07	
BM vs SubP	1.41E-04	1.10E-02	
BM vs SupP	1.12E-01	1.00E+00	ns
BM vs TD	8.68E-02	1.00E+00	ns
BM vs TH	6.92E-06	5.40E-04	
BE vs CF	1.83E-01	1.00E+00	ns
BE vs CFMW	6.80E-01	1.00E+00	ns
BE vs HP	1.09E-05	8.50E-04	
BE vs PT	1.34E-07	1.05E-05	
BE vs SAL	4.52E-08	3.53E-06	
BE vs SubP	5.56E-06	4.34E-04	
BE vs SupP	2.93E-04	2.29E-02	
BE vs TD	9.36E-05	7.30E-03	
BE vs TH	7.88E-07	6.15E-05	
CF vs CFMW	2.64E-02	1.00E+00	ns
CF vs HP	2.20E-16	1.72E-14	
CF vs PT	2.20E-16	1.72E-14	
CF vs SAL	2.20E-16	1.72E-14	
CF vs SubP	2.20E-16	1.72E-14	
CF vs SupP	2.20E-16	1.72E-14	
CF vs TD	2.20E-16	1.72E-14	
CF vs TH	2.20E-16	1.72E-14	
CFMW vs HP	4.70E-05	3.67E-03	
CFMW vs PT	5.78E-07	4.51E-05	
CFMW vs SAL	1.58E-07	1.23E-05	
CFMW vs SubP	1.24E-05	9.67E-04	
CFMW vs SupP	3.87E-04	3.02E-02	
CFMW vs TD	2.55E-04	1.99E-02	
CFMW vs TH	2.48E-06	1.93E-04	
HP vs PT	1.39E-02	1.00E+00	ns
HP vs SAL	3.93E-05	3.07E-03	
HP vs SubP	2.13E-01	1.00E+00	ns
HP vs SupP	1.12E-01	1.00E+00	ns
HP vs TD	7.65E-03	5.97E-01	ns
HP vs TH	1.08E-01	1.00E+00	ns
PT vs SAL	4.06E-02	1.00E+00	ns
PT vs SubP	4.64E-01	1.00E+00	ns
PT vs SupP	4.51E-04	3.52E-02	
PT vs TD	3.38E-07	2.64E-05	
PT vs TH	4.17E-01	1.00E+00	ns
SAL vs SubP	2.99E-02	1.00E+00	ns
SAL vs SupP	5.94E-06	4.63E-04	
SAL vs TD	2.84E-10	2.22E-08	
SAL vs TH	8.09E-03	6.31E-01	ns
SubP vs SupP	2.01E-02	1.00E+00	ns
SubP vs TD	1.96E-03	1.53E-01	ns
SubP vs TH	9.50E-01	1.00E+00	ns
SupP vs TD	8.49E-01	1.00E+00	ns
SupP vs TH	4.91E-03	3.83E-01	ns
TD vs TH	4.68E-05	3.65E-03	