

Supplementary Figure S1A

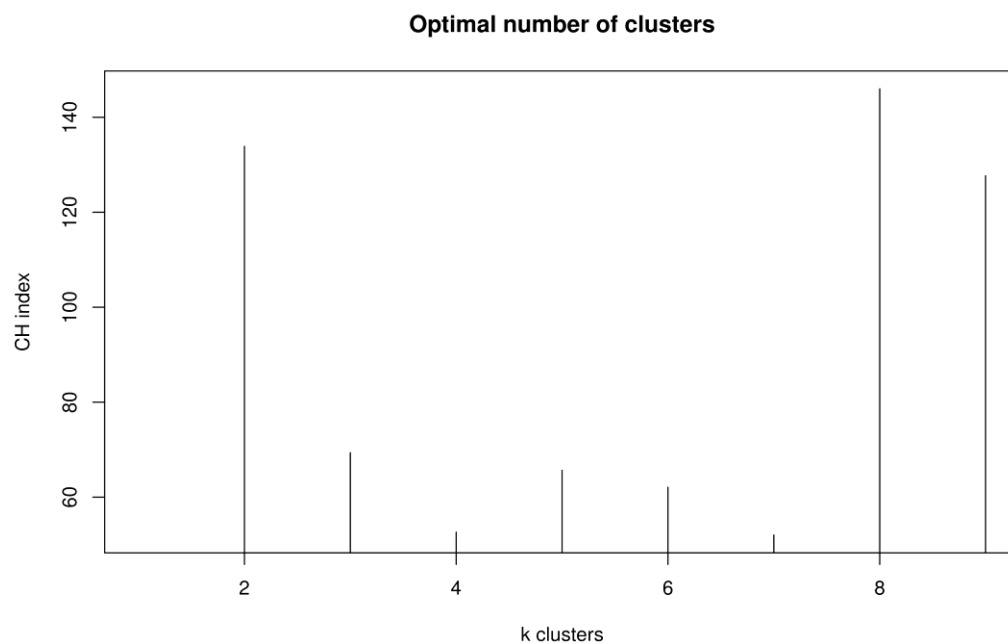
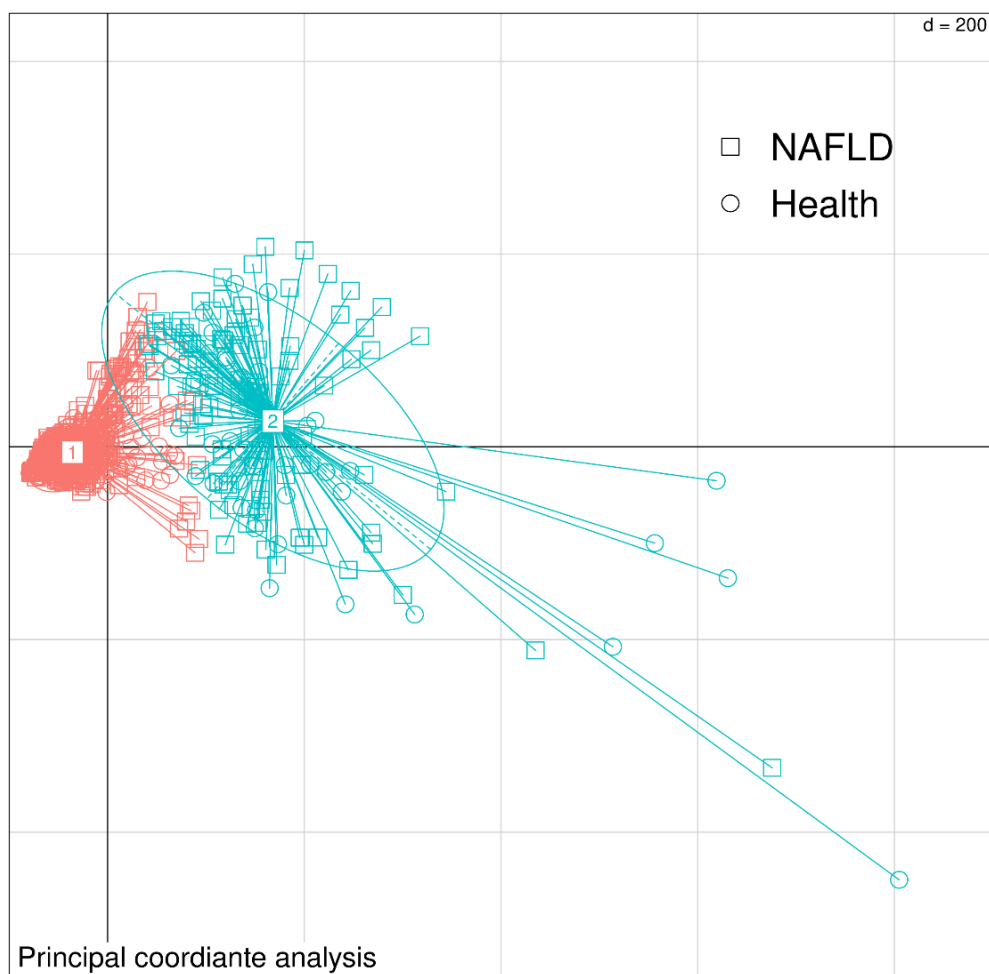


Figure S1B



Supplementary Figure S2A

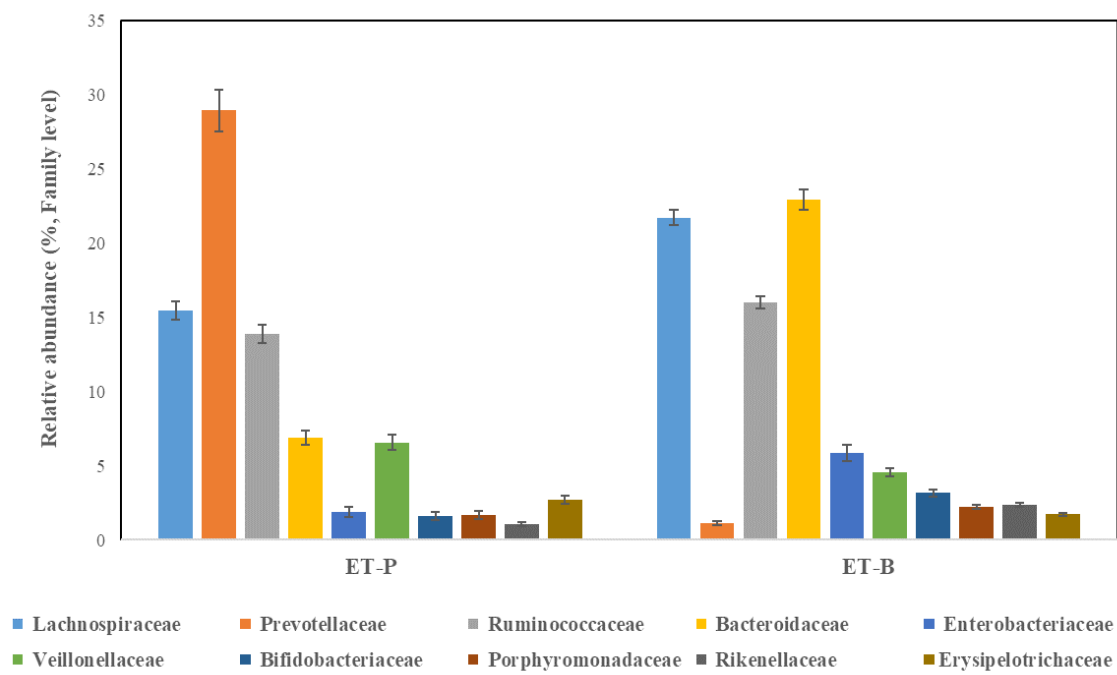
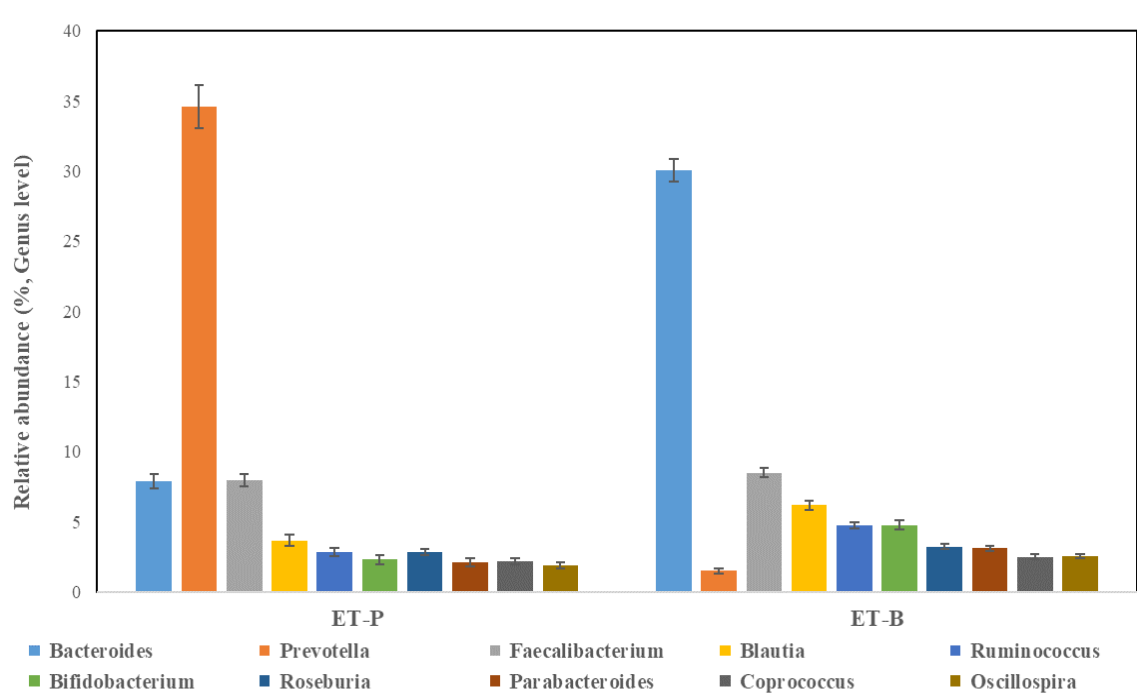
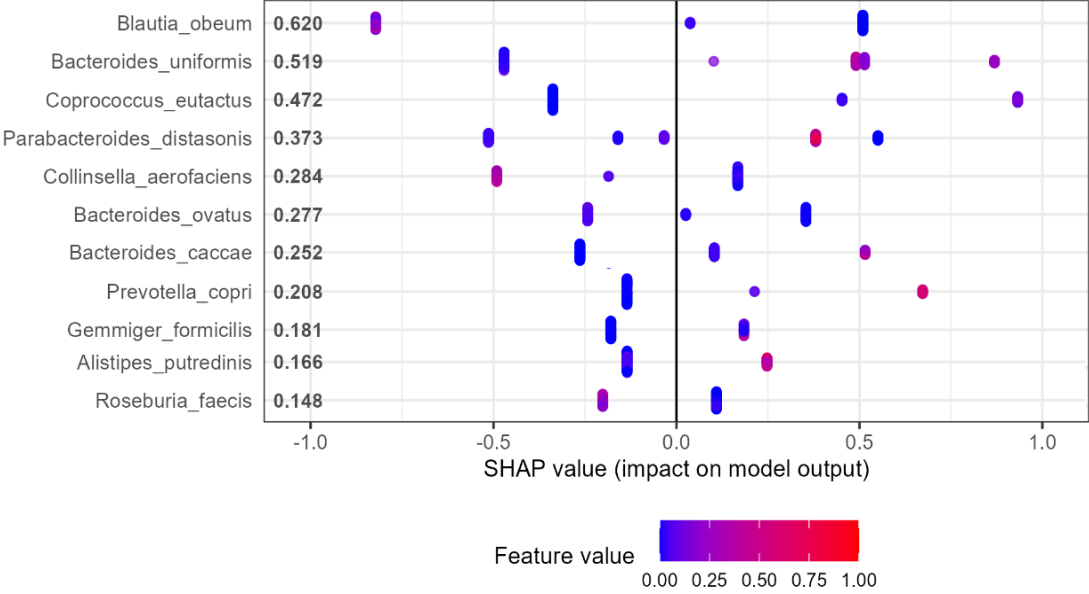


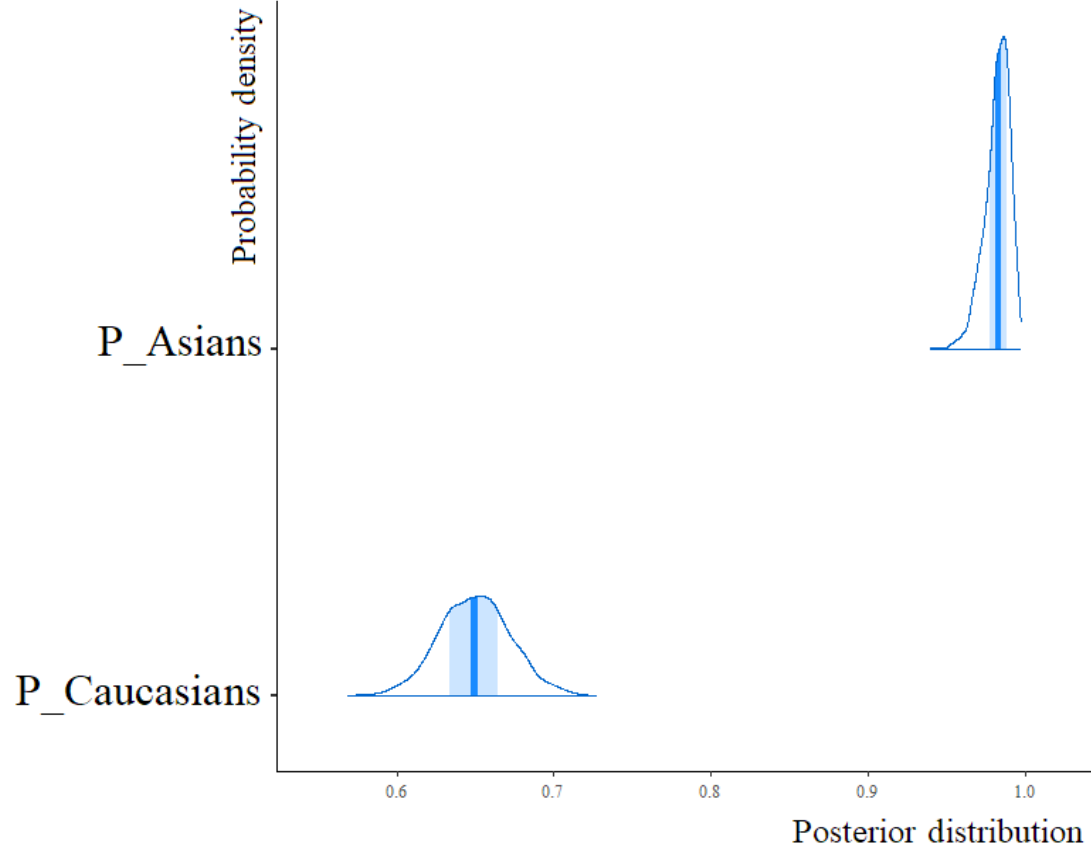
Figure S2B



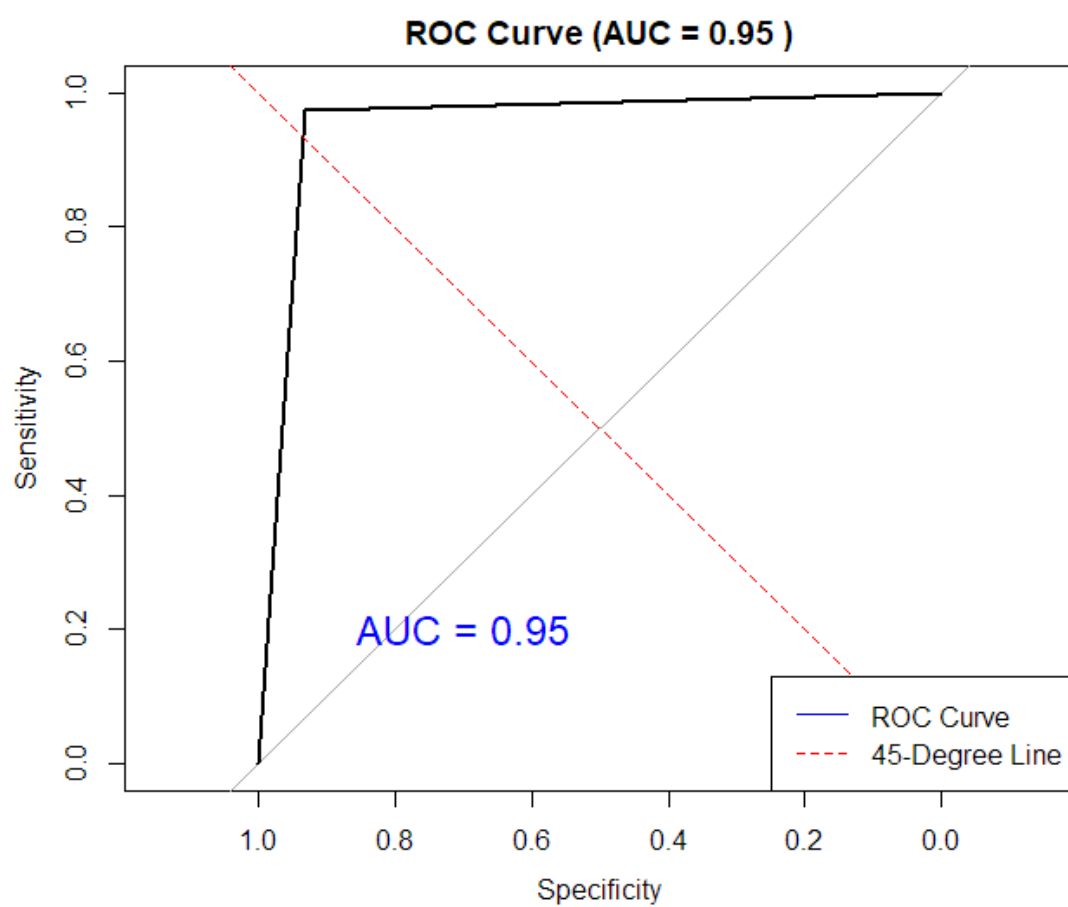
Supplementary Figure S3



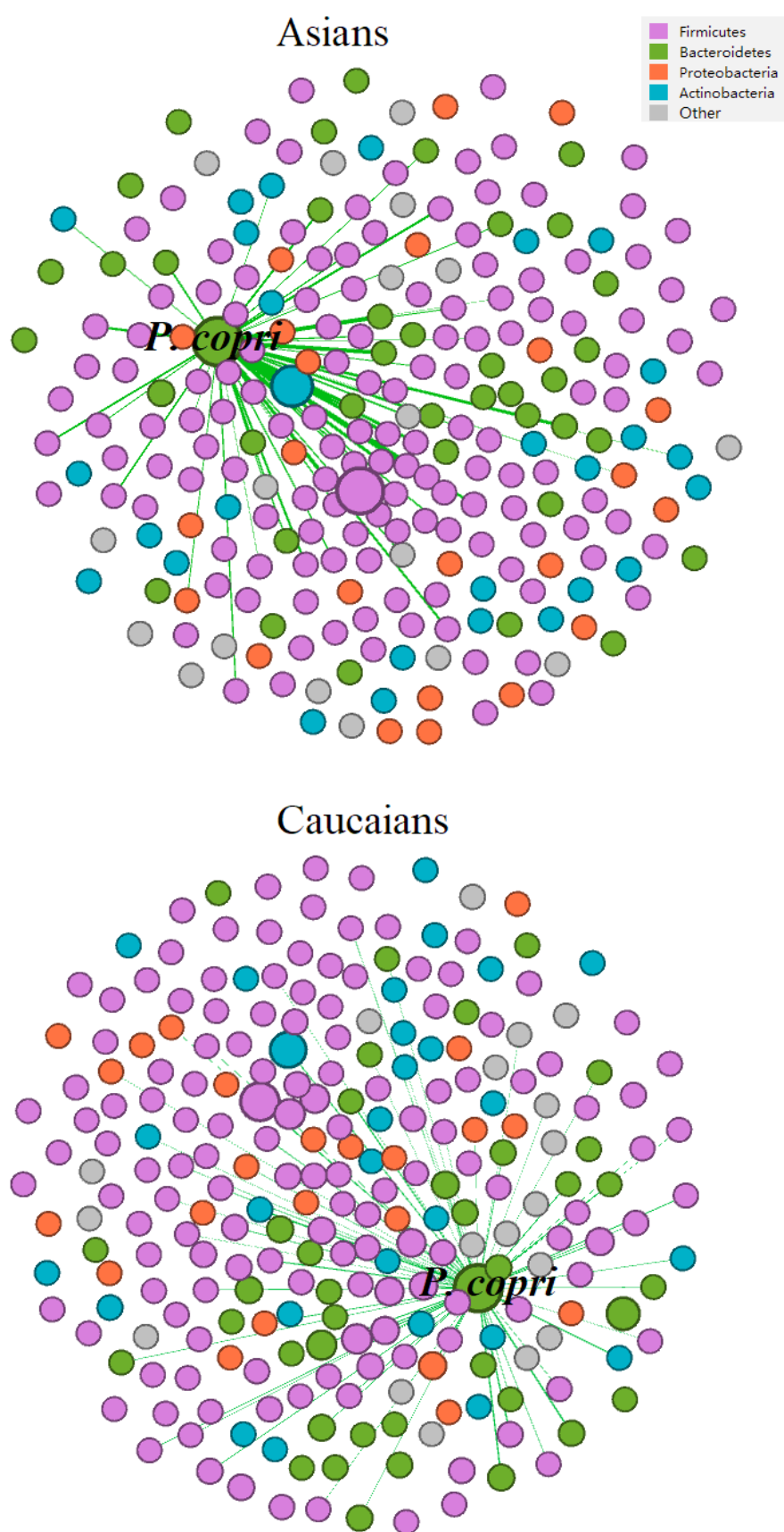
Supplementary Figure S4



Supplementary Figure S5



Supplementary Figure S6



Supplementary table S1. Performance data for XGBoost machine learning.

	Specificity	Specificity	Sensitivity	ROC AUC
ET-B	0.8266667	0.7478788	0.837607	0.7455556
ET-P	0.9923664	1	0.990446	0.9890937

Supplementary table S2. Detailed clinical data for each sample.

Project number	Sample ID	Age	Gender	BMI	Country	Race	Group
PRJEB28350	ERR2753669	52	Female	38.9501	USA	Caucasian	MAFLD
PRJEB28350	ERR2753670	71	Female	31.0339	USA	Caucasian	Health
PRJEB28350	ERR2753671	63	Female	34.8643	USA	Caucasian	MAFLD
PRJEB28350	ERR2753672	63	Female	33.5616	USA	Caucasian	MAFLD
PRJEB28350	ERR2753673	61	Female	42.6692	USA	Caucasian	MAFLD
PRJEB28350	ERR2753674	40	Female	29.1277	USA	Caucasian	MAFLD
PRJEB28350	ERR2753675	41	Female	25.5556	USA	Caucasian	MAFLD
PRJEB28350	ERR2753676	47	Female	33.4223	USA	Caucasian	MAFLD
PRJEB28350	ERR2753677	64	Female	33.2671	USA	Caucasian	MAFLD
PRJEB28350	ERR2753678	42	Male	28.3685	USA	Caucasian	MAFLD
PRJEB28350	ERR2753679	37	Female	30.625	USA	Caucasian	MAFLD
PRJEB28350	ERR2753680	58	Female	26.0792	USA	Caucasian	MAFLD
PRJEB28350	ERR2753681	61	Female	25.0979	USA	Caucasian	MAFLD
PRJEB28350	ERR2753683	69	Female	30.6712	USA	Caucasian	MAFLD
PRJEB28350	ERR2753684	39	Male	30.978	USA	Caucasian	MAFLD
PRJEB28350	ERR2753685	81	Male	35.8138	USA	Caucasian	MAFLD
PRJEB28350	ERR2753686	81	Male	34.5629	USA	Caucasian	MAFLD
PRJEB28350	ERR2753687	78	Female	27.4747	USA	Caucasian	MAFLD
PRJEB28350	ERR2753689	65	Male		USA	Caucasian	MAFLD
PRJEB28350	ERR2753690	38	Male	24.2101	USA	Caucasian	Health
PRJEB28350	ERR2753691	33	Female	29.3447	USA	Caucasian	Health
PRJEB28350	ERR2753692	71	Male	31.0085	USA	Caucasian	MAFLD
PRJEB28350	ERR2753694	68	Male	28.9073	USA	Caucasian	MAFLD
PRJEB28350	ERR2753696	60	Female	26.6476	USA	Caucasian	MAFLD
PRJEB28350	ERR2753697	39	Female	56.7591	USA	Caucasian	Health
PRJEB28350	ERR2753698	30	Female	27.4004	USA	Caucasian	MAFLD
PRJEB28350	ERR2753699	28	Male	34.8027	USA	Caucasian	Health
PRJEB28350	ERR2753700	66	Female	37.9188	USA	Caucasian	MAFLD
PRJEB28350	ERR2753701	43	Female	43.2341	USA	Caucasian	MAFLD
PRJEB28350	ERR2753702	33	Male	103.138	USA	Caucasian	Health
PRJEB28350	ERR2753703	45	Female	48.2878	USA	Caucasian	MAFLD
PRJEB28350	ERR2753704	42	Female	38.6396	USA	Caucasian	MAFLD
PRJEB28350	ERR2753705	66	Female	22.1631	USA	Caucasian	MAFLD
PRJEB28350	ERR2753706	63	Female	31.0735	USA	Caucasian	Health
PRJEB28350	ERR2753707	59	Female	28.4878	USA	Caucasian	MAFLD
PRJEB28350	ERR2753708	59	Female	37.2945	USA	Caucasian	MAFLD
PRJEB28350	ERR2753709	66	Female	29.8328	USA	Caucasian	MAFLD
PRJEB28350	ERR2753710	61	Female	37.5828	USA	Caucasian	MAFLD
PRJEB28350	ERR2753711	61	Female	33.011	USA	Caucasian	MAFLD
PRJEB28350	ERR2753712	73	Female	37.6636	USA	Caucasian	MAFLD
PRJEB28350	ERR2753713	71	Male	39.3951	USA	Caucasian	MAFLD
PRJEB28350	ERR2753714	64	Female	49.8215	USA	Caucasian	MAFLD
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PRJEB28350	ERR2753716	47 Female	26.9788 USA	Caucasian	Health
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PRJEB28350	ERR2753718	44 Female	23.7007 USA	Caucasian	Health
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PRJEB28350	ERR2753722	44 Female	40.1163 USA	Caucasian	MAFLD
PRJEB28350	ERR2753723	41 Female	38.4183 USA	Caucasian	MAFLD
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PRJEB28350	ERR2753735	18 Female	21.2 USA	Caucasian	Health
PRJEB28350	ERR2753736	25 Male	17.8 USA	Caucasian	Health
PRJEB28350	ERR2753737	25 Male	18.8 USA	Caucasian	Health
PRJEB28350	ERR2753738	22 Female	19.8 USA	Caucasian	Health
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PRJEB28350	ERR2753740	58 Male	32.6 USA	Caucasian	MAFLD
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PRJEB40538	ERR4634117	Italy	Caucasian	MAFLD
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PRJEB40538	ERR4634122	Italy	Caucasian	MAFLD
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PRJNA540841	SRR10918254	Germany	Caucasian	MAFLD
PRJNA540842	SRR10918255	Germany	Caucasian	MAFLD
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PRJNA246121	SRR1273366	35 Female	China	Asian	MAFLD

PRJNA246121	SRR1273367	38 Female	China	Asian	MAFLD
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PRJNA246121	SRR1273373	38 Female	China	Asian	Health
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PRJNA401981	SRR6024845	49 Female	19.1 Italy	Caucasian	Health
PRJNA401981	SRR6024846	46 Female	24.6 Italy	Caucasian	Health
PRJNA401981	SRR6024847	55 Female	24.4 Italy	Caucasian	Health
PRJNA401981	SRR6024848	51 Female	23.1 Italy	Caucasian	Health
PRJNA401981	SRR6024849	62 Female	22.1 Italy	Caucasian	Health
PRJNA401981	SRR6024850	44 Female	23.1 Italy	Caucasian	Health
PRJNA401981	SRR6024853	35 Male	24.7 Italy	Caucasian	Health
PRJNA401981	SRR6024854	38 Male	22.2 Italy	Caucasian	Health
PRJNA401981	SRR6024855	42 Male	24.2 Italy	Caucasian	Health
PRJNA401981	SRR6024856	38 Male	22.1 Italy	Caucasian	Health

PRJNA401981	SRR6024857	58 Male	22.6 Italy	Caucasian	Health
PRJNA401981	SRR6024858	51 Male	20.5 Italy	Caucasian	Health
PRJNA401981	SRR6024859	56 Male	25.8 Italy	Caucasian	Health
PRJNA401981	SRR6024860	60 Male	19.4 Italy	Caucasian	Health
PRJNA401981	SRR6024861	46 Male	24.8 Italy	Caucasian	Health
PRJNA401981	SRR6024862	63 Male	23.6 Italy	Caucasian	Health
PRJNA414683	SRR6185168	59 Male	28.4 New Zealand	Caucasian	Health
PRJNA414683	SRR6185180	40 Male	27.1 New Zealand	Caucasian	Health
PRJNA414683	SRR6185189	59 Male	28.4 New Zealand	Caucasian	Health
PRJNA414683	SRR6185204	59 Male	28.4 New Zealand	Caucasian	Health
PRJNA414683	SRR6185211	40 Male	27.1 New Zealand	Caucasian	Health
PRJNA414683	SRR6185233	33 Female	26.5 New Zealand	Caucasian	Health
PRJNA414683	SRR6185239	34 Male	27.3 New Zealand	Caucasian	Health
PRJNA414683	SRR6185241	59 Male	28.4 New Zealand	Caucasian	Health
PRJNA414683	SRR6185244	33 Female	26.5 New Zealand	Caucasian	Health
PRJNA414683	SRR6185260	40 Male	27.1 New Zealand	Caucasian	Health
PRJNA414683	SRR6185268	33 Female	26.5 New Zealand	Caucasian	Health
PRJNA414683	SRR6185271	34 Male	27.3 New Zealand	Caucasian	Health
PRJNA414683	SRR6185276	40 Male	27.1 New Zealand	Caucasian	Health
PRJNA414683	SRR6185280	34 Male	27.3 New Zealand	Caucasian	Health
PRJNA414683	SRR6185287	33 Female	26.5 New Zealand	Caucasian	Health
PRJNA414683	SRR6185294	34 Male	27.3 New Zealand	Caucasian	Health
PRJNA518731	SRR8518981		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8518983		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8518987		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8518988		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8518990		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8518998		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519001		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519002		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519003		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519013		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519019		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519022		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519023		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519028		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519029		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519031		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519032		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519036		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519038		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519041		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519046		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519050		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519051		New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519056		New Zealand	Caucasian	MAFLD

PRJNA518731	SRR8519057	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519062	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519066	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519072	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519076	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519086	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519089	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519093	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519099	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519101	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519103	New Zealand	Caucasian	MAFLD
PRJNA518731	SRR8519104	New Zealand	Caucasian	MAFLD
PRJNA540790	SRR9001634	Germany	Caucasian	MAFLD
PRJNA540774	SRR9001635	Germany	Caucasian	MAFLD
PRJNA540769	SRR9001639	Germany	Caucasian	Health
PRJNA540768	SRR9001640	Germany	Caucasian	Health
PRJNA540767	SRR9001641	Germany	Caucasian	Health
PRJNA540792	SRR9001642	Germany	Caucasian	MAFLD
PRJNA540791	SRR9001643	Germany	Caucasian	MAFLD
PRJNA540770	SRR9001644	Germany	Caucasian	MAFLD
PRJNA540772	SRR9001646	Germany	Caucasian	MAFLD
PRJNA540775	SRR9001651	Germany	Caucasian	MAFLD
PRJNA540773	SRR9001652	Germany	Caucasian	MAFLD
PRJNA540793	SRR9001653	Germany	Caucasian	MAFLD
PRJNA540794	SRR9001654	Germany	Caucasian	MAFLD
PRJNA540795	SRR9001655	Germany	Caucasian	MAFLD
PRJNA540796	SRR9001656	Germany	Caucasian	MAFLD
PRJNA540797	SRR9001657	Germany	Caucasian	MAFLD
PRJNA540798	SRR9001658	Germany	Caucasian	MAFLD
PRJNA540799	SRR9001659	Germany	Caucasian	MAFLD
PRJNA540800	SRR9001660	Germany	Caucasian	MAFLD
PRJNA540810	SRR9001661	Germany	Caucasian	MAFLD
PRJNA540811	SRR9001662	Germany	Caucasian	MAFLD
PRJNA540782	SRR9001663	Germany	Caucasian	MAFLD
PRJNA540783	SRR9001664	Germany	Caucasian	MAFLD
PRJNA540780	SRR9001665	Germany	Caucasian	MAFLD
PRJNA540781	SRR9001666	Germany	Caucasian	MAFLD
PRJNA540778	SRR9001667	Germany	Caucasian	MAFLD
PRJNA540779	SRR9001668	Germany	Caucasian	MAFLD
PRJNA540776	SRR9001669	Germany	Caucasian	MAFLD
PRJNA540777	SRR9001670	Germany	Caucasian	MAFLD
PRJNA540784	SRR9001671	Germany	Caucasian	MAFLD
PRJNA540785	SRR9001672	Germany	Caucasian	MAFLD
PRJNA540771	SRR9001674	Germany	Caucasian	MAFLD
PRJNA540762	SRR9001676	Germany	Caucasian	Health
PRJNA540789	SRR9001684	Germany	Caucasian	MAFLD

PRJNA540788	SRR9001685	Germany	Caucasian	MAFLD
PRJNA540787	SRR9001686	Germany	Caucasian	MAFLD
PRJNA540786	SRR9001687	Germany	Caucasian	MAFLD
PRJNA540804	SRR9001688	Germany	Caucasian	MAFLD
PRJNA540803	SRR9001689	Germany	Caucasian	MAFLD
PRJNA540801	SRR9001690	Germany	Caucasian	MAFLD
PRJNA540806	SRR9001691	Germany	Caucasian	MAFLD
PRJNA540805	SRR9001692	Germany	Caucasian	MAFLD
PRJNA540823	SRR9001696	Germany	Caucasian	MAFLD
PRJNA540824	SRR9001697	Germany	Caucasian	MAFLD
PRJNA540819	SRR9001698	Germany	Caucasian	MAFLD
PRJNA540820	SRR9001699	Germany	Caucasian	MAFLD
PRJNA540821	SRR9001700	Germany	Caucasian	MAFLD
PRJNA540822	SRR9001701	Germany	Caucasian	MAFLD
PRJNA540807	SRR9001702	Germany	Caucasian	MAFLD
PRJNA540808	SRR9001703	Germany	Caucasian	MAFLD
PRJNA540809	SRR9001704	Germany	Caucasian	MAFLD
PRJNA540818	SRR9001705	Germany	Caucasian	MAFLD
PRJNA540837	SRR9001710	Germany	Caucasian	MAFLD
PRJNA540802	SRR9001711	Germany	Caucasian	MAFLD
PRJNA540816	SRR9001712	Germany	Caucasian	MAFLD
PRJNA540815	SRR9001713	Germany	Caucasian	MAFLD
PRJNA540814	SRR9001714	Germany	Caucasian	MAFLD
PRJNA540813	SRR9001715	Germany	Caucasian	MAFLD
PRJNA540812	SRR9001716	Germany	Caucasian	MAFLD
PRJNA540835	SRR9001717	Germany	Caucasian	MAFLD
PRJNA540834	SRR9001718	Germany	Caucasian	MAFLD
PRJNA540827	SRR9001719	Germany	Caucasian	MAFLD
PRJNA540826	SRR9001720	Germany	Caucasian	MAFLD
PRJNA540829	SRR9001721	Germany	Caucasian	MAFLD
PRJNA540828	SRR9001722	Germany	Caucasian	MAFLD
PRJNA540831	SRR9001723	Germany	Caucasian	MAFLD
PRJNA540830	SRR9001724	Germany	Caucasian	MAFLD
PRJNA540833	SRR9001725	Germany	Caucasian	MAFLD
PRJNA540832	SRR9001726	Germany	Caucasian	MAFLD
PRJNA540765	SRR9001727	Germany	Caucasian	Health
PRJNA540766	SRR9001728	Germany	Caucasian	Health
PRJNA540836	SRR9001731	Germany	Caucasian	MAFLD
PRJNA540763	SRR9001733	Germany	Caucasian	Health
PRJNA540764	SRR9001734	Germany	Caucasian	Health
PRJNA540825	SRR9016647	Germany	Caucasian	MAFLD
PRJNA540817	SRR9016650	Germany	Caucasian	MAFLD

Supplementary table S3. Comparison of network topological data for gut microbiota between Healthy and MAFLD individuals

	Health	MAFLD
No. Node	131	130
No. Edge	432	404
Average degree	6.6	5.82
Average path length	0.79	1.17
Negative Edge Ratio	0.58	0.55
Robustness (50%)	0.47	0.42

Supplementary Table S4. Differential Network Parameters of P.copri Among Ethnicities Based on ET-P.

	Asians	Caucaians
Size	36.3596	31.8225
Degree	57	66
Weighted Degree	14.1286	6.5946
Closeness Centrality	0.565217	0.577103
Betweenness Centrality	0.003649	0.00666
PageRank	0.015287	0.006528
Clustering Coefficient	0.408521	0.255944
Eigenvector Centrality	0.364104	0.34376