Table S1 Sequencing identifiers of the 782 participants included in the analysis

Microbiota-ID	Subject-ID	Sex	Age, years	Body mass index, kg/m²
99-0001945	1	Male	75	26.7
99-0001915	3	Male	76	16.5
99-0001916	4	Male	68	22.3
99-0001889	5	Male	76	23.5
99-0001918	6	Female	73	21.1
99-0001900	7	Female	74	23
99-0001914	8	Female	68	18.6
99-0001952	9	Male	79	21.5
99-0001902	10	Male	68	20.5
0001-00321	11	Female	69	20.6
0001-00323	12	Male	71	21.3
0001-00322	13	Female	67	20.1
0001-00325	14	Male	74	23.7
0001-00327	16	Female	70	23.1
0001-00329	18	Female	68	26.4
0001-00330	19	Male	71	26.3
0001-00331	20	Female	67	18.5
0001-00332	21	Male	74	22.1
0001-00339	23	Female	73	21.3
99-0001917	24	Male	76	24.5
0001-00283	25	Female	79	18.4
0001-00282	26	Female	85	22.7
0001-00284	27	Female	78	24.9
0001-00285	28	Male	69	22.9
0001-00286	29	Female	76	23
0001-00287	30	Female	77	25.2
0001-00288	31	Male	70	28.2
0001-00289	32	Male	72	21.6
0001-00290	33	Female	84	27.5
0001-00301	34	Female	75	24
0001-00302	35	Female	82	24.4
0001-00303	36	Female	77	23.7
0001-00304	37	Female	76	23.8
0001-00343	38	Female	72	28.8
0001-00344	39	Male	82	19.1
0001-00345	40	Female	67	21
0001-00346	41	Male	73	25.7
0001-00347	42	Male	71	20.3
0001-00348	43	Female	72	27.1
0001-00281	44	Male	68	26
0001-00308	46	Female	68	25.2
0001-00336	47	Male	69	25.7
0001-00342	48	Male	79	26.2
0001-00333	49	Male	69	25.5
0001-00334	50	Female	75	22.3
0001-00349	51	Female	76	27.4
0001-00338	52	Male	71	19.8

0001-00498	53	Female	69	22.3
0001-00499	54	Female	73	21.6
0001-00500	55	Male	86	25.5
0001-00306	56	Female	76	27.8
0001-00309	57	Female	73	27.2
0001-00341	58	Female	71	27.3
0001-00335	59	Male	74	22.3
0001-00350	60	Female	70	21.8
0001-00476	61	Female	72	27.6
0001-00305	62	Female	80	17.8
0001-00494	63	Female	71	21.3
0001-00495	64	Male	67	17.1
0001-00492	65	Male	75	22.1
0001-00481	66	Male	72	20.1
0001-00491	67	Male	68	24.6
0001-00496	68	Male	72	21.8
0001-00483	69	Male	72	23.3
0001-00482	70	Female	66	23.5
0001-00488	71	Female	70	21.7
0001-00487	72	Female	76	21.1
0001-00486	73	Female	75	20.8
0001-00484	74	Female	69	21.7
0001-00485	75	Female	70	20.3
0001-00307	76	Male	69	22.6
0001-00489	77	Male	76	22.9
0001-00497	78	Female	72	24.3
0001-00480	79	Female	69	29.9
0001-00493	80	Female	76	23.1
0001-00478	81	Male	68	26.2
0001-00490	82	Female	71	20.2
0001-00472	83	Female	73	24.7
0001-00474	84	Male	70	22.9
0001-00471	85	Female	65	21.3
0001-00473	86	Male	88	21.6
0001-00475	87	Female	67	25.6
0001-00513	88	Female	77	23.1
0001-00514	89	Female	76	21.4
0001-00515	90	Female	78	23.4
0001-00516	91	Female	69	19.8
0001-00517	92	Female	76	20.5
0001-00519	93	Male	72	21.7
0001-00520	94	Female	70	24.1
0001-00518	95	Male	85	20.8
0001-00511	96	Male	67	20.9
0001-00512	97	Male	69	18.8
0001-00479	98	Male	92	19.6
0001-00508	99	Female	76	21.2
0001-00510	100	Male	70	24.1
0001-00509	101	Female	65	24

0001-00501	102	Male	70	22.5
0001-00502	103	Female	69	22.9
0001-00503	104	Female	74	22.2
0001-00504	105	Female	72	26.6
0001-00506	106	Female	73	27
0001-00505	107	Male	66	27.2
0001-00638	108	Male	78	28.7
0001-00639	109	Female	69	27.6
0001-00507	110	Male	68	22.1
0001-00640	111	Female	71	20
0001-00637	112	Female	87	23.3
0001-00636	113	Female	69	21.2
0001-00635	114	Female	71	31.6
0001-00634	115	Female	69	26.1
0001-00632	116	Female	69	21.3
0001-00631	117	Female	72	28.3
0001-00670	118	Female	69	19.2
0001-00677	119	Female	70	18.8
0001-00678	120	Female	70	19.1
0001-00679	121	Male	73	21.5
0001-00680	122	Male	74	22.8
0001-00671	123	Female	69	20
0001-00672	124	Female	70	25.7
0001-00674	125	Female	71	23.3
0001-00675	126	Male	75	23.3
0001-00673	127	Male	75	24.5
0001-00669	128	Male	75	23.6
0001-00668	129	Female	88	21.2
0001-00667	130	Female	73	22.6
0001-00666	131	Male	74	23.9
0001-00665	132	Female	76	21.4
0001-00664	134	Female	68	20.6
0001-00663	135	Male	82	24.1
0001-00661	136	Female	77	24.9
0001-00662	137	Male	68	19.9
0001-00652	139	Male	84	22.8
0001-00653	140	Female	84	22.6
0001-00654	141	Female	69	20.9
0001-00655	142	Female	77	21.3
0001-00657	143	Female	72	22.1
0001-00658	144	Male	74	20.8
0001-00659	145	Female	74	21.8
0001-00660	148	Female	72	24.3
0041-00092	149	Female	76	24.7
0041-00096	151	Male	80	18.8
0001-00656	152	Female	80	22
0041-00097	153	Male	87	21.3
0041-00099	154	Female	70	17.8
0041-00051	155	Female	70	23.7

0041-00052	156	Male	70	30.2
0041-00053	157	Female	65	21.5
0041-00054	158	Female	68	28.8
0041-00055	159	Female	72	22.8
0041-00057	160	Female	65	17.6
0041-00093	161	Female	87	30.5
0041-00058	162	Male	74	22.7
0041-00059	163	Male	70	25.4
0041-00060	164	Female	69	28.7
0041-00056	165	Male	67	21.3
0041-00066	166	Female	74	25.1
0041-00065	167	Female	70	23.5
0041-00064	168	Male	78	23.6
0041-00063	169	Female	68	25.7
0041-00062	170	Female	68	22.5
0041-00061	171	Female	69	32.7
0041-00077	173	Female	68	18.4
0041-00078	174	Female	75	26.9
0041-00079	175	Female	71	19.6
0041-00080	176	Female	67	18.4
0041-00068	177	Female	75	19.3
0041-00091	178	Male	77	23.4
0041-00069	179	Female	73	24.5
0041-00070	180	Male	75	19.9
0041-00089	181	Female	68	25.5
0041-00090	182	Female	70	25.3
0041-00074	183	Female	66	20.4
0041-00075	184	Female	70	27.9
0041-00073	185	Female	67	26.4
0041-00072	186	Female	70	22.5
0041-00071	187	Female	77	20.9
0041-00085	188	Female	68	18.4
0041-00086	189	Female	79	24.5
0041-00084	190	Male	69	21.3
0041-00087	191	Female	66	23.2
0041-00088	192	Male	69	22.3
0041-00139	193	Male	71	23.3
0041-00083	194	Female	74	16.5
0041-00140	195	Female	68	20
0041-00143	196	Male	77	21.8
0041-00150	197	Male	83	20.3
0041-00148	198	Female	66	21
0041-00161	199	Male	69	23.2
0041-00158	200	Female	71	20
0041-00146	201	Female	66	20.7
0041-00145	202	Male	70	24.8
0041-00157	203	Female	69	25.1
0041-00159	204	Male	69	22.1
0041-00155	205	Female	75	16.8

0041-00132	206	Male	68	23.9
0041-00160	207	Male	77	22.6
0041-00149	208	Male	69	22.4
0041-00147	209	Male	75	22
0041-00144	210	Male	74	24.7
0041-00152	211	Female	76	23.7
0041-00067	214	Female	69	22.2
0041-00135	216	Male	70	22.9
0041-00156	217	Male	75	28.4
0041-00154	218	Female	76	15.8
0041-00136	219	Male	71	22.1
0041-00153	220	Female	77	22.8
0041-00175	221	Male	79	24.4
0041-00180	222	Female	76	29.2
0041-00177	223	Male	65	25.5
0041-00173	224	Male	65	20.9
0041-00134	225	Male	71	29.5
0041-00141	226	Female	76	25.3
0041-00169	227	Male	78	23
0041-00163	228	Male	76	24.5
0041-00166	229	Male	69	26.7
0041-00131	230	Female	65	22.4
0041-00142	231	Female	71	26.3
0041-00179	232	Female	69	22.4
0041-00133	233	Male	74	21.9
0041-00176	234	Male	66	25.9
0041-00162	236	Male	68	22
0041-00171	237	Female	67	23.8
0041-00172	238	Female	71	33.4
0041-00165	239	Female	74	20.1
0041-00164	240	Female	75	21.2
0041-00167	241	Male	74	20.6
0041-00138	242	Female	68	23.3
0041-00174	243	Female	79	18.6
0041-00168	244	Male	69	17.8
0041-00178	245	Female	74	18.7
0041-00196	246	Female	68	17
0041-00186	247	Female	83	23.4
0041-00187	248	Female	83	28
0041-00195	249	Female	75	24.3
0041-00190	250	Female	72	27.2
0041-00191	251	Female	80	21.3
0041-00192	252	Female	69	19.5
0041-00181	253	Male	75	25.8
0041-00185	254	Male	75	25.3
0041-00197	255	Female	69	23.6
0041-00198	256	Female	78	25.6
0041-00200	257	Female	89	17.1
0041-00199	258	Male	72	19.3

0041-00189	259	Male	67	23.5
0041-00193	260	Male	79	20.8
0041-00194	261	Female	72	23.8
0041-00183	262	Female	68	22.9
0041-00182	263	Female	71	20.2
0041-00117	264	Male	71	20.3
0041-00119	265	Male	72	25.9
0041-00118	266	Female	71	19.4
0041-00126	267	Female	73	20.9
0041-00120	268	Male	72	23.4
0041-00121	269	Female	78	22.1
0041-00122	270	Female	69	22.2
0041-00123	271	Female	68	26.6
0041-00124	272	Female	73	24.4
0041-00125	273	Female	69	22.1
0041-00127	274	Male	83	23.9
0041-00129	275	Female	82	26.6
0041-00205	276	Male	79	28.8
0041-00128	277	Female	65	17.3
0041-00188	278	Female	74	21.7
0041-00203	279	Male	79	25.4
0041-00201	280	Female	78	21.3
0041-00206	281	Male	67	26.1
0041-00207	282	Female	68	25.3
0041-00208	283	Female	69	20.9
0041-00290	284	Male	74	24.4
0041-00209	285	Female	82	25.4
0041-00210	286	Male	88	24.1
0041-00211	287	Male	71	24.8
0041-00212	288	Male	72	19.9
0041-00213	289	Male	75	18.9
0041-00215	290	Male	75	28.1
0041-00216	291	Female	74	19.7
0041-00214	292	Female	71	23.1
0041-00217	293	Female	73	25.6
0041-00269	294	Female	69	20.8
0041-00268	295	Male	70	29.5
0041-00264	296	Female	78	22.3
0041-00266	297	Female	81	20
0041-00289	298	Female	70	25.3
0041-00288	299	Male	68	22.7
0041-00265	300	Male	89	25
0041-00263	301	Male	98	19.5
0041-00270	302	Female	68	24.8
0041-00262	303	Female	73	23.9
0041-00267	304	Male	74	25.6
0041-00256	305	Male	82	22.4
0041-00257	306	Male	72	23
0041-00258	307	Male	69	22.4

0041-00259	308	Female	76	22.7
0041-00261	309	Female	77	38.2
0041-00260	310	Female	77	23.3
0041-00286	312	Male	67	22.5
0041-00255	313	Male	75	25.8
0041-00204	314	Female	76	20.1
0041-00245	315	Male	85	25.4
0041-00249	316	Female	76	22.8
0041-00248	317	Female	70	21.9
0041-00247	318	Male	75	23.5
0041-00253	319	Female	77	20.1
0041-00250	320	Female	74	21.9
0041-00252	321	Male	69	23.8
0041-00251	322	Female	67	17.9
0041-00246	323	Female	75	22
0041-00254	324	Male	76	23.2
0041-00275	325	Female	73	23.5
0041-00273	326	Male	76	26.2
0041-00274	327	Female	72	24
0041-00276	328	Female	68	21.9
0041-00277	329	Male	70	24.8
0041-00242	330	Male	74	22
0041-00243	331	Female	74	26.3
0041-00244	332	Female	79	20.7
0041-00285	333	Female	77	24.3
0041-00202	334	Female	69	23.4
0041-00284	335	Male	89	24.3
0041-00271	336	Female	67	27.9
0041-00272	337	Male	80	23.1
0041-00281	338	Male	80	22
0041-00280	339	Female	77	25.7
0041-00282	340	Male	72	25.1
0041-00241	341	Female	68	27.2
0041-00279	342	Male	70	26.4
0041-00278	343	Female	81	18.4
0041-00240	344	Female	71	28.4
0041-00237	345	Male	88	22
0041-00232	346	Female	65	29.1
0041-00238	347	Male	87	26.3
0041-00233	348	Male	73	21.5
0041-00234	349	Female	65	20.1
0041-00236	350	Female	74	20.8
0041-00345	351	Female	76	25.4
0041-00235	352	Male	66	20.7
0041-00231	353	Female	75	18.4
0041-00343	354	Male	70	21.1
0041-00239	355	Female	73	22.6
0041-00346	356	Male	69	23.6
0041-00344	357	Male	77	20.8

0041-00347	358	Female	74	20.3
0041-00338	359	Female	78	17.4
0041-00340	360	Female	68	25.6
0041-00351	361	Female	73	22.8
0041-00337	362	Female	70	22.5
0041-00339	363	Male	73	24.8
0041-00350	364	Male	70	25.5
0041-00352	365	Female	83	24.8
0041-00348	366	Male	73	16.2
0041-00342	367	Female	75	21.2
0041-00341	368	Female	75	18.2
0041-00336	369	Male	82	31.6
0041-00335	370	Female	71	22.9
0041-00334	371	Male	81	25.9
0041-00324	372	Male	81	21.8
0041-00331	373	Male	83	24.7
0041-00330	374	Female	77	27.4
0041-00329	375	Male	69	25.9
0041-00327	376	Female	83	22.3
0041-00326	377	Female	76	25
0041-00328	378	Female	66	21.6
0041-00325	379	Female	72	20.3
0041-00364	380	Male	67	22.4
0041-00363	381	Male	93	34
0041-00349	382	Female	71	24.7
0041-00362	383	Male	72	23.7
0041-00361	384	Male	72	25.1
0041-00365	385	Male	82	24.4
0041-00373	386	Female	69	22.1
0041-00374	387	Male	84	18.6
0041-00323	388	Female	78	26.6
0041-00375	389	Male	80	23.7
0041-00376	390	Male	76	24.3
0041-00377	391	Male	73	28.7
0041-00378	392	Female	73	19.7
0041-00379	393	Male	77	20.7
0041-00380	394	Male	73	25.2
0041-00372	395	Male	69	23.5
0041-00371	396	Male	66	23.3
0041-00384	397	Male	75	21.7
0041-00385	398	Male	75	26.5
0041-00386	399	Female	70	18.7
0041-00387	400	Female	82	22.3
0041-00388	401	Female	85	19.9
0041-00389	402	Female	71	26
0041-00370	404	Male	81	22.7
0041-00382	406	Male	65	26.6
0041-00368	407	Male	71	26.1
0041-00383	408	Male	81	15.5

0041-00369	409	Male	70	17.1
0041-00367	410	Female	70	23.1
0041-00366	411	Female	75	24.2
0041-00429	412	Male	82	20.9
0041-00424	413	Female	86	29
0041-00422	414	Female	79	19.5
0041-00332	415	Female	70	23.4
0041-00410	416	Female	74	23.5
0041-00416	417	Male	70	26.6
0041-00428	418	Female	72	23.6
0041-00423	419	Male	84	21.3
0041-00404	420	Male	68	23.4
0041-00430	421	Male	93	22.1
0041-00403	422	Male	71	25.1
0041-00406	423	Female	69	25.7
0041-00426	424	Female	68	24.3
0041-00427	425	Male	67	20.8
0041-00419	426	Female	85	17.4
0041-00425	427	Female	70	24.8
0041-00402	428	Male	76	25.1
0041-00414	429	Female	74	25.8
0041-00401	430	Female	73	22.2
0041-00405	431	Female	81	26.7
0041-00407	432	Female	79	21.1
0041-00408	433	Female	72	16.9
0041-00411	434	Female	93	16.8
0041-00412	435	Female	74	26.1
0041-00413	436	Male	83	15.7
0041-00418	437	Female	80	27.1
0041-00417	438	Female	75	21.3
0041-00420	439	Female	83	22.5
0041-00421	440	Female	66	21.1
0041-00409	441	Male	89	25.3
0041-00441	442	Male	81	22.2
0041-00442	443	Male	69	23.7
0041-00443	444	Female	79	22.2
0041-00444	445	Male	70	23.1
0041-00447	446	Male	79	22.8
0041-00449	448	Female	68	30.2
0041-00450	449	Male	72	22.4
0041-00451	450	Female	72	25
0041-00453	451	Female	76	26.3
0041-00454	452	Male	71	26.3
0041-00455	453	Male	73	20.7
0041-00456	454	Female	73	22.8
0041-00457	455	Female	67	17.7
0041-00458	456	Female	74	25.1
0041-00480	457	Female	83	19.3
0041-00463	459	Female	78	24.7

0041-00464	460	Female	83	21.1
0041-00465	461	Female	74	32.6
0041-00466	462	Male	71	19
0041-00467	463	Female	70	20.5
0041-00468	464	Male	72	29.6
0041-00469	465	Male	82	21.4
0041-00471	466	Female	97	24.5
0041-00472	467	Female	68	23
0041-00473	468	Female	73	24.8
0041-00476	470	Male	78	24.3
0041-00477	471	Male	70	26.3
0041-00478	472	Female	66	24.2
0041-00479	473	Female	71	23.8
0041-00461	474	Female	70	22.4
0041-00462	475	Female	69	22.3
0041-00481	476	Male	79	26.8
0041-00482	477	Female	79	23.9
0041-00485	479	Male	70	20.6
0041-00486	480	Female	76	27.4
0041-00483	481	Female	83	25.1
0041-00487	482	Female	69	22.6
0041-00488	483	Male	65	23.1
0041-00489	484	Female	66	20.8
0041-00452	485	Male	70	21.1
0041-00512	486	Male	67	24.9
0041-00513	487	Male	66	25.5
0041-00514	488	Male	66	27.5
0041-00515	489	Female	67	30.8
0041-00516	490	Male	66	21.3
0041-00517	491	Female	71	23.6
0041-00518	492	Male	86	25.3
0041-00519	493	Male	71	22.8
0041-00520	494	Male	78	16.6
0041-00521	495	Female	79	22.9
0041-00522	496	Male	74	25.8
0041-00523	497	Male	91	28.9
0041-00524	498	Male	70	25.8
0041-00525	499	Female	77	23.1
0041-00526	500	Female	68	28.8
0041-00530	503	Male	70	22.7
0041-00531	504	Female	69	19.4
0041-00532	505	Female	77	20.6
0041-00567	506	Female	71	18.9
0041-00534	507	Male	74	21.9
0041-00535	508	Female	72	21.7
0041-00536	509	Female	69	20.4
0041-00537	510	Male	82	20.3
0041-00538	511	Female	66	17.1
0041-00445	512	Male	70	24.2

0041-00446	513	Female	70	19.2
0041-00539	514	Male	78	25.1
0041-00540	515	Male	82	26.4
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Microbiota-ID is the identifier under which the raw 16S rRNA gene sequence data are deposited in the NCBI Sequence Read Archive under BioProject accession numbers PRJNA1470357 and PRJNA1440982.

Subject-ID is the within-cohort participant number used to link the sequence data to the clinical data.

Age is at the baseline examination. Body mass index is derived from the weight and height measured by bioelectrical impedance at the same examination, as used throughout the manuscript.

Four participants with sequence data were excluded from the analysis and are not listed here.