

Table S1 Full result of MR estimates for the association between gut microbiota and renal malignancy.

Bacterial taxa (exposure)	Method	No. of SNP	Beta	SE	P-value
<i>class.Actinobacteria.id.419</i>	MR Egger	15	-0.014	0.590	0.981
	Weighted median	15	-0.585	0.282	0.038
	Inverse variance weighted	15	-0.440	0.205	0.032
	Simple mode	15	-0.735	0.491	0.157
	Weighted mode	15	-0.677	0.383	0.099
<i>class.Alphaproteobacteria.id.2379</i>	MR Egger	7	-1.273	0.923	0.226
	Weighted median	7	0.295	0.313	0.347
	Inverse variance weighted	7	0.270	0.246	0.272
	Simple mode	7	0.546	0.546	0.356
	Weighted mode	7	0.350	0.512	0.520
<i>class.Bacilli.id.1673</i>	MR Egger	18	0.193	0.615	0.757
	Weighted median	18	0.183	0.296	0.538
	Inverse variance weighted	18	0.138	0.219	0.526
	Simple mode	18	-0.317	0.558	0.578
	Weighted mode	18	-0.184	0.462	0.696
<i>class.Bacteroidia.id.912</i>	MR Egger	13	-0.643	0.633	0.331
	Weighted median	13	-0.046	0.365	0.900
	Inverse variance weighted	13	0.186	0.262	0.477
	Simple mode	13	-0.117	0.620	0.853
	Weighted mode	13	-0.232	0.562	0.687
<i>class.Betaproteobacteria.id.2867</i>	MR Egger	10	-1.197	0.889	0.215
	Weighted median	10	-0.376	0.392	0.337
	Inverse variance weighted	10	-0.185	0.280	0.509
	Simple mode	10	0.526	0.594	0.399
	Weighted mode	10	-0.477	0.611	0.456
<i>class.Clostridia.id.1859</i>	MR Egger	13	-0.352	1.089	0.752
	Weighted median	13	0.391	0.346	0.259
	Inverse variance weighted	13	0.248	0.255	0.331
	Simple mode	13	0.674	0.579	0.267
	Weighted mode	13	0.640	0.566	0.280
<i>class.Coriobacteriia.id.809</i>	MR Egger	13	0.439	1.153	0.711
	Weighted median	13	0.373	0.352	0.290
	Inverse variance weighted	13	0.007	0.262	0.979
	Simple mode	13	0.401	0.623	0.532
	Weighted mode	13	0.434	0.637	0.508
<i>class.Deltaproteobacteria.id.3087</i>	MR Egger	11	-1.734	1.382	0.241
	Weighted median	11	-0.122	0.360	0.735
	Inverse variance weighted	11	-0.109	0.271	0.688
	Simple mode	11	-0.105	0.533	0.848
	Weighted mode	11	-0.164	0.558	0.775

<i>class.Erysipelotrichia.id.2147</i>	MR Egger	13	-1.689	1.248	0.203
	Weighted median	13	0.205	0.368	0.577
	Inverse variance weighted	13	-0.110	0.296	0.710
	Simple mode	13	0.173	0.626	0.787
	Weighted mode	13	0.266	0.605	0.668
<i>class.Gammaproteobacteria.id.3303</i>	MR Egger	6	0.112	1.091	0.923
	Weighted median	6	0.304	0.480	0.526
	Inverse variance weighted	6	0.291	0.362	0.422
	Simple mode	6	0.034	0.680	0.963
	Weighted mode	6	0.203	0.635	0.762
<i>class.Lentisphaeria.id.2250</i>	MR Egger	8	0.193	0.921	0.841
	Weighted median	8	0.403	0.224	0.072
	Inverse variance weighted	8	0.309	0.240	0.199
	Simple mode	8	0.413	0.326	0.245
	Weighted mode	8	0.413	0.301	0.212
<i>class.Melaibacteria.id.1589</i>	MR Egger	10	1.176	0.515	0.052
	Weighted median	10	0.079	0.237	0.740
	Inverse variance weighted	10	0.122	0.178	0.494
	Simple mode	10	-0.056	0.380	0.886
	Weighted mode	10	-0.056	0.363	0.880
<i>class.Methanobacteria.id.119</i>	MR Egger	8	-0.356	0.944	0.719
	Weighted median	8	-0.151	0.213	0.479
	Inverse variance weighted	8	-0.035	0.225	0.877
	Simple mode	8	-0.120	0.351	0.742
	Weighted mode	8	-0.128	0.313	0.694
<i>class.Mollicutes.id.3920</i>	MR Egger	11	0.003	0.741	0.997
	Weighted median	11	0.017	0.310	0.957
	Inverse variance weighted	11	-0.047	0.220	0.831
	Simple mode	11	-0.687	0.509	0.206
	Weighted mode	11	0.072	0.496	0.887
<i>class.Negativicutes.id.2164</i>	MR Egger	11	-1.010	0.914	0.298
	Weighted median	11	0.152	0.357	0.671
	Inverse variance weighted	11	0.294	0.273	0.282
	Simple mode	11	0.116	0.599	0.850
	Weighted mode	11	0.059	0.570	0.920
<i>class.Verrucomicrobiae.id.4029</i>	MR Egger	11	0.912	0.742	0.251
	Weighted median	11	-0.105	0.301	0.728
	Inverse variance weighted	11	-0.042	0.222	0.851
	Simple mode	11	-0.420	0.540	0.454
	Weighted mode	11	0.526	0.505	0.323

<i>family.Acidaminococcaceae.id.2166</i>	MR Egger	7	-0.112	1.053	0.919
	Weighted median	7	0.189	0.370	0.609
	Inverse variance weighted	7	0.158	0.320	0.622
	Simple mode	7	0.266	0.620	0.683
	Weighted mode	7	-0.038	0.591	0.951
<i>family.Actinomycetaceae.id.421</i>	MR Egger	4	0.877	0.613	0.289
	Weighted median	4	-0.123	0.359	0.732
	Inverse variance weighted	4	0.012	0.304	0.969
	Simple mode	4	-0.504	0.681	0.513
	Weighted mode	4	0.492	0.394	0.300
<i>family.Alcaligeceae.id.2875</i>	MR Egger	11	0.548	1.275	0.678
	Weighted median	11	0.412	0.379	0.278
	Inverse variance weighted	11	-0.011	0.278	0.967
	Simple mode	11	0.489	0.600	0.434
	Weighted mode	11	0.489	0.601	0.434
<i>family.Bacteroidaceae.id.917</i>	MR Egger	7	-1.254	1.651	0.482
	Weighted median	7	0.387	0.431	0.369
	Inverse variance weighted	7	0.370	0.332	0.265
	Simple mode	7	0.850	0.688	0.263
	Weighted mode	7	0.789	0.659	0.276
<i>family.BacteroidalesS24.7group.id.11173</i>	MR Egger	8	-0.681	0.774	0.413
	Weighted median	8	-0.313	0.272	0.250
	Inverse variance weighted	8	-0.137	0.202	0.498
	Simple mode	8	-0.442	0.450	0.358
	Weighted mode	8	-0.449	0.411	0.311
<i>family.Bifidobacteriaceae.id.433</i>	MR Egger	11	-1.535	0.898	0.121
	Weighted median	11	-0.307	0.359	0.393
	Inverse variance weighted	11	0.100	0.310	0.747
	Simple mode	11	0.830	0.768	0.305
	Weighted mode	11	-0.623	0.395	0.146
<i>family.Christensenellaceae.id.1866</i>	MR Egger	11	0.541	0.408	0.217
	Weighted median	11	-0.038	0.285	0.892
	Inverse variance weighted	11	-0.107	0.210	0.612
	Simple mode	11	-0.039	0.438	0.932
	Weighted mode	11	0.054	0.324	0.870
<i>family.Clostridiaceae1.id.1869</i>	MR Egger	10	0.021	0.900	0.982
	Weighted median	10	0.334	0.358	0.351
	Inverse variance weighted	10	0.112	0.292	0.702
	Simple mode	10	0.330	0.573	0.578
	Weighted mode	10	0.401	0.506	0.449
<i>family.ClostridialesvadinBB60group.id.1</i>	MR Egger	15	-0.986	0.487	0.064

	Weighted median	15	-0.335	0.228	0.142
	Inverse variance weighted	15	-0.278	0.177	0.117
	Simple mode	15	-0.510	0.414	0.238
	Weighted mode	15	-0.510	0.360	0.179
<i>family.Coriobacteriaceae.id.811</i>	MR Egger	13	0.439	1.153	0.711
	Weighted median	13	0.373	0.376	0.322
	Inverse variance weighted	13	0.007	0.262	0.979
	Simple mode	13	0.401	0.661	0.556
	Weighted mode	13	0.434	0.640	0.511
<i>family.Defluviitaleaceae.id.1924</i>	MR Egger	11	-1.042	0.705	0.173
	Weighted median	11	-0.090	0.259	0.728
	Inverse variance weighted	11	-0.091	0.197	0.643
	Simple mode	11	-0.071	0.454	0.879
	Weighted mode	11	-0.063	0.470	0.896
<i>family.Desulfovibrionaceae.id.3169</i>	MR Egger	8	-1.642	1.752	0.385
	Weighted median	8	-0.001	0.415	0.998
	Inverse variance weighted	8	-0.091	0.361	0.801
	Simple mode	8	0.145	0.618	0.822
	Weighted mode	8	0.184	0.584	0.762
<i>family.Enterobacteriaceae.id.3469</i>	MR Egger	6	-2.334	2.414	0.388
	Weighted median	6	-0.094	0.431	0.827
	Inverse variance weighted	6	-0.205	0.347	0.555
	Simple mode	6	-0.132	0.646	0.846
	Weighted mode	6	-0.051	0.626	0.938
<i>family.Erysipelotrichaceae.id.2149</i>	MR Egger	13	-1.689	1.248	0.203
	Weighted median	13	0.205	0.360	0.569
	Inverse variance weighted	13	-0.110	0.296	0.710
	Simple mode	13	0.173	0.599	0.777
	Weighted mode	13	0.266	0.585	0.658
<i>family.FamilyXI.id.1936</i>	MR Egger	8	-1.055	0.866	0.269
	Weighted median	8	-0.421	0.170	0.014
	Inverse variance weighted	8	-0.355	0.136	0.009
	Simple mode	8	-0.459	0.265	0.127
	Weighted mode	8	-0.453	0.236	0.096
<i>family.FamilyXIII.id.1957</i>	MR Egger	7	2.158	1.571	0.228
	Weighted median	7	0.486	0.505	0.337
	Inverse variance weighted	7	0.406	0.436	0.352
	Simple mode	7	0.295	0.917	0.759
	Weighted mode	7	0.309	0.827	0.722
<i>family.Lachnospiraceae.id.1987</i>	MR Egger	16	-0.705	0.904	0.448

	Weighted median	16	0.279	0.347	0.420
	Inverse variance weighted	16	0.173	0.261	0.508
	Simple mode	16	0.432	0.628	0.502
	Weighted mode	16	0.404	0.598	0.509
<i>family.Lactobacillaceae.id.1836</i>	MR Egger	9	0.223	0.568	0.706
	Weighted median	9	0.171	0.245	0.485
	Inverse variance weighted	9	-0.035	0.206	0.865
	Simple mode	9	0.044	0.436	0.922
	Weighted mode	9	0.163	0.301	0.603
<i>family.Methanobacteriaceae.id.121</i>	MR Egger	8	-0.356	0.944	0.719
	Weighted median	8	-0.151	0.206	0.464
	Inverse variance weighted	8	-0.035	0.225	0.877
	Simple mode	8	-0.120	0.342	0.736
	Weighted mode	8	-0.128	0.304	0.685
<i>family.Oxalobacteraceae.id.2966</i>	MR Egger	14	0.177	0.496	0.728
	Weighted median	14	-0.183	0.170	0.282
	Inverse variance weighted	14	-0.184	0.129	0.152
	Simple mode	14	-0.219	0.274	0.439
	Weighted mode	14	-0.202	0.246	0.427
<i>family.Pasteurellaceae.id.3689</i>	MR Egger	13	-0.227	0.380	0.563
	Weighted median	13	-0.168	0.225	0.455
	Inverse variance weighted	13	-0.158	0.170	0.353
	Simple mode	13	-0.284	0.369	0.456
	Weighted mode	13	-0.423	0.366	0.271
<i>family.Peptococcaceae.id.2024</i>	MR Egger	9	0.699	0.615	0.294
	Weighted median	9	-0.029	0.293	0.923
	Inverse variance weighted	9	-0.002	0.221	0.992
	Simple mode	9	-0.016	0.446	0.972
	Weighted mode	9	-0.016	0.420	0.970
<i>family.Peptostreptococcaceae.id.2042</i>	MR Egger	13	-0.365	0.520	0.497
	Weighted median	13	-0.061	0.281	0.828
	Inverse variance weighted	13	0.014	0.226	0.952
	Simple mode	13	-0.100	0.464	0.832
	Weighted mode	13	-0.033	0.368	0.930
<i>family.Porphyromodaceae.id.943</i>	MR Egger	9	2.248	1.463	0.168
	Weighted median	9	0.612	0.433	0.157
	Inverse variance weighted	9	0.363	0.330	0.271
	Simple mode	9	0.677	0.662	0.336
	Weighted mode	9	0.701	0.659	0.318
<i>family.Prevotellaceae.id.960</i>	MR Egger	15	-1.963	0.749	0.021
	Weighted median	15	0.126	0.326	0.698

	Inverse variance weighted	15	0.077	0.253	0.761
	Simple mode	15	-0.040	0.623	0.949
	Weighted mode	15	-0.016	0.558	0.978
<i>family.Rhodospirillaceae.id.2717</i>	MR Egger	14	0.846	0.727	0.268
	Weighted median	14	0.366	0.225	0.104
	Inverse variance weighted	14	0.229	0.166	0.168
	Simple mode	14	0.414	0.374	0.289
	Weighted mode	14	0.427	0.365	0.263
<i>family.Rikenellaceae.id.967</i>	MR Egger	17	0.444	0.674	0.520
	Weighted median	17	-0.210	0.303	0.488
	Inverse variance weighted	17	-0.199	0.222	0.368
	Simple mode	17	-0.457	0.570	0.434
	Weighted mode	17	-0.397	0.546	0.478
<i>family.Ruminococcaceae.id.2050</i>	MR Egger	9	-0.146	0.714	0.843
	Weighted median	9	0.128	0.381	0.738
	Inverse variance weighted	9	-0.032	0.288	0.913
	Simple mode	9	0.259	0.538	0.643
	Weighted mode	9	0.157	0.502	0.762
<i>family.Streptococcaceae.id.1850</i>	MR Egger	12	0.459	1.073	0.678
	Weighted median	12	0.695	0.350	0.047
	Inverse variance weighted	12	0.532	0.260	0.041
	Simple mode	12	0.845	0.482	0.108
	Weighted mode	12	0.797	0.535	0.164
<i>family.Veillonellaceae.id.2172</i>	MR Egger	19	-0.172	0.374	0.651
	Weighted median	19	-0.164	0.260	0.529
	Inverse variance weighted	19	-0.088	0.181	0.626
	Simple mode	19	-0.249	0.441	0.580
	Weighted mode	19	-0.187	0.276	0.507
<i>family.Verrucomicrobiaceae.id.4036</i>	MR Egger	11	0.911	0.742	0.251
	Weighted median	11	-0.105	0.310	0.735
	Inverse variance weighted	11	-0.042	0.222	0.851
	Simple mode	11	-0.420	0.557	0.468
	Weighted mode	11	0.534	0.501	0.312
<i>family.Victivallaceae.id.2255</i>	MR Egger	11	-1.109	0.824	0.211
	Weighted median	11	0.159	0.190	0.404
	Inverse variance weighted	11	0.041	0.189	0.828
	Simple mode	11	0.539	0.374	0.180
	Weighted mode	11	0.516	0.400	0.226
<i>family.unknownfamily.id.1000001214</i>	MR Egger	9	0.788	0.536	0.185
	Weighted median	9	0.249	0.255	0.330
	Inverse variance weighted	9	0.328	0.178	0.066

	Simple mode	9	0.776	0.445	0.119
	Weighted mode	9	0.072	0.384	0.857
<i>family.unknownfamily.id.1000005471</i>	MR Egger	12	-0.234	0.544	0.676
	Weighted median	12	-0.019	0.277	0.945
	Inverse variance weighted	12	0.003	0.194	0.989
	Simple mode	12	0.010	0.446	0.982
	Weighted mode	12	-0.024	0.433	0.956
<i>family.unknownfamily.id.1000006161</i>	MR Egger	12	-0.015	0.609	0.981
	Weighted median	12	0.228	0.195	0.241
	Inverse variance weighted	12	0.170	0.142	0.232
	Simple mode	12	0.335	0.338	0.343
	Weighted mode	12	0.324	0.345	0.367
<i>genus..Clostridiuminnocuumgroup.id.14397</i>	MR Egger	7	0.004	1.015	0.997
	Weighted median	7	0.226	0.224	0.311
	Inverse variance weighted	7	0.084	0.189	0.658
	Simple mode	7	0.474	0.413	0.295
	Weighted mode	7	0.439	0.348	0.254
<i>genus..Eubacteriumbrachygroup.id.11296</i>	MR Egger	10	-0.184	0.576	0.758
	Weighted median	10	-0.190	0.184	0.302
	Inverse variance weighted	10	-0.100	0.143	0.487
	Simple mode	10	-0.244	0.286	0.417
	Weighted mode	10	-0.240	0.312	0.461
<i>genus..Eubacteriumcoprostanoligenesgroup.id.11375</i>	MR Egger	14	1.244	1.154	0.302
	Weighted median	14	-0.035	0.348	0.921
	Inverse variance weighted	14	-0.355	0.304	0.243
	Simple mode	14	-0.036	0.545	0.948
	Weighted mode	14	0.107	0.481	0.827
<i>genus..Eubacteriumeligensgroup.id.14372</i>	MR Egger	6	-0.751	1.459	0.634
	Weighted median	6	-0.014	0.426	0.973
	Inverse variance weighted	6	0.265	0.372	0.476
	Simple mode	6	-0.155	0.646	0.820
	Weighted mode	6	-0.145	0.596	0.818
<i>genus..Eubacteriumfissicategroup.id.14373</i>	MR Egger	9	1.404	0.785	0.117
	Weighted median	9	-0.103	0.202	0.611
	Inverse variance weighted	9	-0.078	0.163	0.631
	Simple mode	9	0.350	0.399	0.407
	Weighted mode	9	-0.453	0.359	0.242

<i>genus..Eubacteriumhalliigroup.id.11338</i>	MR Egger	15	-0.129	0.497	0.800
	Weighted median	15	-0.097	0.301	0.746
	Inverse variance weighted	15	0.089	0.231	0.700
	Simple mode	15	-0.506	0.537	0.362
	Weighted mode	15	-0.346	0.440	0.445
<i>genus..Eubacteriumnodatumgroup.id.11297</i>	MR Egger	11	-0.553	0.551	0.342
	Weighted median	11	-0.081	0.165	0.621
	Inverse variance weighted	11	-0.022	0.124	0.856
	Simple mode	11	-0.168	0.277	0.558
	Weighted mode	11	-0.179	0.259	0.505
<i>genus..Eubacteriumoxidoreducensgroup.id.11339</i>	MR Egger	5	-0.211	1.284	0.880
	Weighted median	5	0.004	0.321	0.989
	Inverse variance weighted	5	-0.098	0.300	0.743
	Simple mode	5	0.315	0.547	0.596
	Weighted mode	5	0.323	0.508	0.560
<i>genus..Eubacteriumrectalegroup.id.14374</i>	MR Egger	8	1.096	1.281	0.425
	Weighted median	8	-0.057	0.441	0.897
	Inverse variance weighted	8	-0.024	0.347	0.945
	Simple mode	8	-0.095	0.641	0.887
	Weighted mode	8	-0.108	0.599	0.861
<i>genus..Eubacteriumrumintiumgroup.id.11340</i>	MR Egger	18	0.495	0.555	0.385
	Weighted median	18	0.184	0.211	0.384
	Inverse variance weighted	18	-0.075	0.167	0.655
	Simple mode	18	0.450	0.419	0.298
	Weighted mode	18	0.408	0.343	0.251
<i>genus..Eubacteriumventriosumgroup.id.11341</i>	MR Egger	15	-0.255	1.118	0.823
	Weighted median	15	0.038	0.301	0.900
	Inverse variance weighted	15	-0.024	0.242	0.920
	Simple mode	15	-0.049	0.537	0.928
	Weighted mode	15	-0.049	0.501	0.923
<i>genus..Eubacteriumxylanophilumgroup.id.14375</i>	MR Egger	9	-0.792	0.728	0.312
	Weighted median	9	-0.429	0.319	0.178
	Inverse variance weighted	9	-0.398	0.243	0.102
	Simple mode	9	-0.444	0.468	0.371
	Weighted mode	9	-0.499	0.461	0.311

<i>genus..Ruminococcusgavvreauiigroup.id.11342</i>	MR Egger	12	-0.089	1.030	0.933
	Weighted median	12	0.307	0.322	0.340
	Inverse variance weighted	12	-0.034	0.227	0.882
	Simple mode	12	0.427	0.500	0.411
	Weighted mode	12	0.397	0.440	0.386
<i>genus..Ruminococcusgvusgroup.id.14376</i>	MR Egger	11	-0.208	0.795	0.800
	Weighted median	11	-0.126	0.215	0.557
	Inverse variance weighted	11	-0.012	0.166	0.943
	Simple mode	11	-0.038	0.355	0.916
	Weighted mode	11	-0.065	0.317	0.841
<i>genus..Ruminococcustorquesgroup.id.14377</i>	MR Egger	7	0.338	1.634	0.844
	Weighted median	7	0.210	0.450	0.641
	Inverse variance weighted	7	0.346	0.368	0.347
	Simple mode	7	-0.119	0.678	0.867
	Weighted mode	7	-0.042	0.676	0.952
<i>genus.Actinomyces.id.423</i>	MR Egger	7	0.425	0.529	0.458
	Weighted median	7	0.300	0.264	0.255
	Inverse variance weighted	7	0.150	0.216	0.486
	Simple mode	7	0.439	0.433	0.349
	Weighted mode	7	0.433	0.379	0.297
<i>genus.Adlercreutzia.id.812</i>	MR Egger	8	-1.477	1.052	0.210
	Weighted median	8	-0.525	0.312	0.093
	Inverse variance weighted	8	-0.316	0.245	0.198
	Simple mode	8	-0.572	0.493	0.284
	Weighted mode	8	-0.579	0.441	0.231
<i>genus.Akkermansia.id.4037</i>	MR Egger	11	0.907	0.742	0.253
	Weighted median	11	-0.107	0.290	0.713
	Inverse variance weighted	11	-0.042	0.222	0.850
	Simple mode	11	-0.420	0.562	0.472
	Weighted mode	11	0.532	0.502	0.314
<i>genus.Alistipes.id.968</i>	MR Egger	11	-1.299	1.456	0.395
	Weighted median	11	-0.220	0.392	0.575
	Inverse variance weighted	11	-0.324	0.298	0.277
	Simple mode	11	-0.070	0.648	0.916
	Weighted mode	11	-0.110	0.593	0.856
<i>genus.Allisonella.id.2174</i>	MR Egger	8	-0.218	1.103	0.850
	Weighted median	8	-0.007	0.192	0.971
	Inverse variance weighted	8	0.082	0.152	0.589
	Simple mode	8	-0.026	0.304	0.934
	Weighted mode	8	-0.031	0.311	0.924

<i>genus.Alloprevotella.id.961</i>	MR Egger	5	0.147	1.497	0.928
	Weighted median	5	-0.061	0.212	0.774
	Inverse variance weighted	5	-0.075	0.172	0.663
	Simple mode	5	-0.163	0.275	0.585
	Weighted mode	5	-0.167	0.280	0.582
<i>genus.Aerofilum.id.2053</i>	MR Egger	11	-1.088	1.025	0.316
	Weighted median	11	0.160	0.210	0.445
	Inverse variance weighted	11	0.000	0.190	1.000
	Simple mode	11	0.330	0.372	0.397
	Weighted mode	11	0.347	0.329	0.316
<i>genus.Aerostipes.id.1991</i>	MR Egger	13	0.592	0.980	0.558
	Weighted median	13	0.332	0.372	0.373
	Inverse variance weighted	13	0.348	0.259	0.179
	Simple mode	13	0.330	0.658	0.625
	Weighted mode	13	0.044	0.652	0.948
<i>genus.Aerotruncus.id.2054</i>	MR Egger	13	0.271	0.833	0.751
	Weighted median	13	-0.052	0.358	0.885
	Inverse variance weighted	13	0.160	0.273	0.558
	Simple mode	13	-0.485	0.716	0.511
	Weighted mode	13	-0.299	0.604	0.630
<i>genus.Bacteroides.id.918</i>	MR Egger	7	-1.254	1.651	0.482
	Weighted median	7	0.387	0.443	0.382
	Inverse variance weighted	7	0.370	0.332	0.265
	Simple mode	7	0.850	0.663	0.247
	Weighted mode	7	0.789	0.703	0.305
<i>genus.Barnesiella.id.944</i>	MR Egger	12	-1.636	0.981	0.126
	Weighted median	12	-0.210	0.323	0.517
	Inverse variance weighted	12	-0.330	0.240	0.169
	Simple mode	12	-0.854	0.535	0.138
	Weighted mode	12	0.195	0.561	0.735
<i>genus.Bifidobacterium.id.436</i>	MR Egger	12	-0.615	0.637	0.357
	Weighted median	12	-0.538	0.285	0.059
	Inverse variance weighted	12	-0.304	0.248	0.220
	Simple mode	12	-0.307	0.450	0.508
	Weighted mode	12	-0.519	0.321	0.134
<i>genus.Bilophila.id.3170</i>	MR Egger	13	-0.588	1.144	0.617
	Weighted median	13	0.334	0.327	0.307
	Inverse variance weighted	13	0.277	0.230	0.227
	Simple mode	13	0.807	0.517	0.144
	Weighted mode	13	0.705	0.485	0.171

<i>genus.Blautia.id.1992</i>	MR Egger	12	-0.695	0.685	0.334
	Weighted median	12	-0.332	0.355	0.349
	Inverse variance weighted	12	-0.310	0.269	0.248
	Simple mode	12	-0.414	0.571	0.483
	Weighted mode	12	-0.405	0.508	0.442
<i>genus.Butyricoccus.id.2055</i>	MR Egger	8	0.167	0.554	0.774
	Weighted median	8	-0.021	0.365	0.954
	Inverse variance weighted	8	0.030	0.282	0.916
	Simple mode	8	-0.056	0.561	0.924
	Weighted mode	8	-0.271	0.540	0.631
<i>genus.Butyricimos.id.945</i>	MR Egger	13	1.232	0.758	0.132
	Weighted median	13	0.224	0.300	0.454
	Inverse variance weighted	13	0.416	0.213	0.050
	Simple mode	13	0.190	0.476	0.697
	Weighted mode	13	0.190	0.464	0.689
<i>genus.Butyrvibrio.id.1993</i>	MR Egger	15	0.510	0.459	0.286
	Weighted median	15	0.043	0.141	0.760
	Inverse variance weighted	15	0.000	0.103	0.999
	Simple mode	15	-0.022	0.254	0.931
	Weighted mode	15	0.017	0.233	0.943
<i>genus.CandidatusSoleaferrea.id.11350</i>	MR Egger	9	-1.963	1.880	0.331
	Weighted median	9	-0.284	0.228	0.214
	Inverse variance weighted	9	-0.163	0.181	0.370
	Simple mode	9	-0.314	0.369	0.420
	Weighted mode	9	-0.311	0.355	0.407
<i>genus.Catenibacterium.id.2153</i>	MR Egger	4	-1.198	3.357	0.755
	Weighted median	4	0.294	0.255	0.249
	Inverse variance weighted	4	0.415	0.231	0.073
	Simple mode	4	0.138	0.451	0.780
	Weighted mode	4	0.121	0.352	0.754
<i>genus.ChristensenellaceaeR.7group.id.11283</i>	MR Egger	8	1.007	1.161	0.419
	Weighted median	8	-0.535	0.441	0.225
	Inverse variance weighted	8	-0.215	0.331	0.515
	Simple mode	8	-0.748	0.738	0.345
	Weighted mode	8	-0.714	0.746	0.370
<i>genus.Clostridiumsensustricto1.id.1873</i>	MR Egger	7	-0.542	0.928	0.584
	Weighted median	7	0.190	0.373	0.610
	Inverse variance weighted	7	0.016	0.345	0.963
	Simple mode	7	0.432	0.676	0.546
	Weighted mode	7	0.216	0.629	0.743

<i>genus.Collinsella.id.815</i>	MR Egger	8	1.400	2.014	0.513
	Weighted median	8	-0.434	0.477	0.364
	Inverse variance weighted	8	0.091	0.517	0.861
	Simple mode	8	-0.845	0.641	0.229
	Weighted mode	8	-0.795	0.583	0.215
<i>genus.Coprobacter.id.949</i>	MR Egger	11	-0.529	0.816	0.533
	Weighted median	11	-0.182	0.261	0.486
	Inverse variance weighted	11	0.007	0.203	0.974
	Simple mode	11	-0.241	0.390	0.551
	Weighted mode	11	-0.218	0.417	0.612
<i>genus.Coprococcus1.id.11301</i>	MR Egger	11	-0.352	0.879	0.698
	Weighted median	11	-0.193	0.386	0.617
	Inverse variance weighted	11	-0.649	0.341	0.057
	Simple mode	11	0.034	0.732	0.964
	Weighted mode	11	-0.013	0.656	0.984
<i>genus.Coprococcus2.id.11302</i>	MR Egger	8	-0.748	1.512	0.639
	Weighted median	8	-0.137	0.346	0.693
	Inverse variance weighted	8	-0.174	0.261	0.504
	Simple mode	8	0.195	0.548	0.733
	Weighted mode	8	-0.234	0.517	0.665
<i>genus.Coprococcus3.id.11303</i>	MR Egger	9	-3.016	2.272	0.226
	Weighted median	9	0.019	0.450	0.966
	Inverse variance weighted	9	0.166	0.440	0.706
	Simple mode	9	0.017	0.848	0.984
	Weighted mode	9	0.017	0.770	0.982
<i>genus.DefluviitaleaceaeUCG011.id.11287</i>	MR Egger	9	-0.596	0.843	0.502
	Weighted median	9	-0.034	0.295	0.909
	Inverse variance weighted	9	0.072	0.221	0.743
	Simple mode	9	0.034	0.419	0.938
	Weighted mode	9	0.018	0.439	0.968
<i>genus.Desulfovibrio.id.3173</i>	MR Egger	10	-1.254	0.822	0.166
	Weighted median	10	-0.133	0.327	0.684
	Inverse variance weighted	10	-0.255	0.288	0.376
	Simple mode	10	0.191	0.620	0.765
	Weighted mode	10	-0.609	0.603	0.339
<i>genus.Dialister.id.2183</i>	MR Egger	11	1.683	0.949	0.110
	Weighted median	11	-0.168	0.338	0.620
	Inverse variance weighted	11	-0.089	0.236	0.707
	Simple mode	11	-0.165	0.557	0.773
	Weighted mode	11	-0.184	0.514	0.728

<i>genus.Dorea.id.1997</i>	MR Egger	10	0.739	1.174	0.547
	Weighted median	10	0.341	0.429	0.426
	Inverse variance weighted	10	0.347	0.402	0.388
	Simple mode	10	0.152	0.670	0.825
	Weighted mode	10	0.252	0.557	0.661
<i>genus.Eggerthella.id.819</i>	MR Egger	10	0.772	0.760	0.339
	Weighted median	10	-0.175	0.228	0.442
	Inverse variance weighted	10	-0.170	0.164	0.299
	Simple mode	10	-0.449	0.351	0.233
	Weighted mode	10	-0.318	0.331	0.362
<i>genus.Eisenbergiella.id.11304</i>	MR Egger	11	1.186	1.167	0.336
	Weighted median	11	0.108	0.208	0.604
	Inverse variance weighted	11	0.010	0.157	0.947
	Simple mode	11	0.136	0.333	0.693
	Weighted mode	11	0.150	0.335	0.664
<i>genus.Enterorhabdus.id.820</i>	MR Egger	6	-0.526	0.661	0.471
	Weighted median	6	0.276	0.342	0.420
	Inverse variance weighted	6	0.200	0.251	0.425
	Simple mode	6	0.579	0.505	0.303
	Weighted mode	6	0.289	0.452	0.551
<i>genus.Erysipelatoclostridium.id.11381</i>	MR Egger	15	-0.575	0.687	0.418
	Weighted median	15	0.109	0.246	0.657
	Inverse variance weighted	15	-0.067	0.175	0.702
	Simple mode	15	0.214	0.464	0.652
	Weighted mode	15	0.214	0.454	0.645
<i>genus.ErysipelotrichaceaeUCG003.id.11384</i>	MR Egger	15	-0.120	0.686	0.864
	Weighted median	15	0.287	0.284	0.311
	Inverse variance weighted	15	0.072	0.252	0.776
	Simple mode	15	0.585	0.521	0.280
	Weighted mode	15	0.572	0.439	0.213
<i>genus.Escherichia.Shigella.id.3504</i>	MR Egger	10	0.308	0.965	0.758
	Weighted median	10	-0.219	0.367	0.551
	Inverse variance weighted	10	-0.114	0.297	0.702
	Simple mode	10	-0.143	0.659	0.834
	Weighted mode	10	-0.192	0.602	0.758
<i>genus.Faecalibacterium.id.2057</i>	MR Egger	10	-0.700	0.436	0.147
	Weighted median	10	-0.458	0.307	0.136
	Inverse variance weighted	10	-0.241	0.224	0.281
	Simple mode	10	-0.313	0.506	0.551
	Weighted mode	10	-0.563	0.369	0.161

<i>genus.FamilyXIIIAD3011group.id.11293</i>	MR Egger	13	-0.277	1.506	0.858
	Weighted median	13	-0.435	0.348	0.212
	Inverse variance weighted	13	-0.126	0.303	0.677
	Simple mode	13	-0.578	0.622	0.371
	Weighted mode	13	-0.562	0.519	0.299
<i>genus.FamilyXIIIUCG001.id.11294</i>	MR Egger	8	0.373	0.817	0.664
	Weighted median	8	-0.206	0.342	0.547
	Inverse variance weighted	8	-0.341	0.267	0.202
	Simple mode	8	0.056	0.587	0.926
	Weighted mode	8	0.025	0.513	0.963
<i>genus.Flavonifractor.id.2059</i>	MR Egger	5	-2.091	1.256	0.194
	Weighted median	5	-0.728	0.419	0.082
	Inverse variance weighted	5	-0.515	0.315	0.102
	Simple mode	5	-0.940	0.596	0.190
	Weighted mode	5	-0.934	0.599	0.194
<i>genus.Fusicatenibacter.id.11305</i>	MR Egger	18	0.005	1.246	0.997
	Weighted median	18	0.029	0.346	0.933
	Inverse variance weighted	18	0.011	0.323	0.972
	Simple mode	18	-0.796	0.724	0.287
	Weighted mode	18	0.347	0.713	0.633
<i>genus.Gordonibacter.id.821</i>	MR Egger	10	0.561	0.547	0.335
	Weighted median	10	0.088	0.162	0.585
	Inverse variance weighted	10	0.046	0.136	0.732
	Simple mode	10	0.102	0.268	0.712
	Weighted mode	10	0.102	0.252	0.695
<i>genus.Haemophilus.id.3698</i>	MR Egger	9	-1.105	0.426	0.036
	Weighted median	9	-0.509	0.250	0.042
	Inverse variance weighted	9	-0.333	0.191	0.081
	Simple mode	9	-0.630	0.373	0.130
	Weighted mode	9	-0.616	0.340	0.108
<i>genus.Holdemanela.id.11393</i>	MR Egger	11	0.016	0.603	0.980
	Weighted median	11	-0.074	0.235	0.753
	Inverse variance weighted	11	0.018	0.200	0.928
	Simple mode	11	-0.108	0.364	0.772
	Weighted mode	11	-0.072	0.343	0.838
<i>genus.Holdemania.id.2157</i>	MR Egger	14	-0.052	0.520	0.922
	Weighted median	14	0.000	0.243	1.000
	Inverse variance weighted	14	0.172	0.177	0.331
	Simple mode	14	0.040	0.415	0.925
	Weighted mode	14	-0.044	0.398	0.914
<i>genus.Howardella.id.2000</i>	MR Egger	9	-0.464	0.532	0.413

	Weighted median	9	0.003	0.177	0.988
	Inverse variance weighted	9	0.002	0.134	0.989
	Simple mode	9	0.212	0.281	0.472
	Weighted mode	9	-0.233	0.258	0.394
<i>genus.Hungatella.id.11306</i>	MR Egger	5	2.772	1.087	0.084
	Weighted median	5	0.312	0.270	0.248
	Inverse variance weighted	5	0.138	0.284	0.628
	Simple mode	5	0.326	0.339	0.391
	Weighted mode	5	0.440	0.351	0.279
<i>genus.Intestinibacter.id.11345</i>	MR Egger	15	0.712	0.626	0.276
	Weighted median	15	0.786	0.280	0.005
	Inverse variance weighted	15	0.628	0.193	0.001
	Simple mode	15	1.048	0.482	0.048
	Weighted mode	15	0.983	0.474	0.057
<i>genus.Intestinimos.id.2062</i>	MR Egger	16	0.197	0.511	0.706
	Weighted median	16	-0.441	0.251	0.079
	Inverse variance weighted	16	-0.433	0.185	0.019
	Simple mode	16	-0.472	0.412	0.270
	Weighted mode	16	-0.491	0.394	0.231
<i>genus.Lachnoclostridium.id.11308</i>	MR Egger	13	-0.008	1.027	0.994
	Weighted median	13	-0.362	0.369	0.326
	Inverse variance weighted	13	-0.446	0.291	0.126
	Simple mode	13	-0.138	0.649	0.835
	Weighted mode	13	-0.337	0.518	0.527
<i>genus.Lachnospira.id.2004</i>	MR Egger	5	6.553	3.058	0.122
	Weighted median	5	0.557	0.641	0.385
	Inverse variance weighted	5	0.655	0.599	0.275
	Simple mode	5	0.599	0.886	0.536
	Weighted mode	5	0.608	0.895	0.534
<i>genus.LachnospiraceaeFCS020group.id.11314</i>	MR Egger	12	0.304	0.589	0.617
	Weighted median	12	0.123	0.300	0.682
	Inverse variance weighted	12	0.155	0.223	0.487
	Simple mode	12	-0.199	0.472	0.681
	Weighted mode	12	-0.149	0.481	0.762
<i>genus.LachnospiraceaeNC2004group.id.11316</i>	MR Egger	9	1.231	0.745	0.142
	Weighted median	9	-0.291	0.266	0.274
	Inverse variance weighted	9	-0.285	0.196	0.147
	Simple mode	9	-0.344	0.455	0.471
	Weighted mode	9	-0.344	0.451	0.467

<i>genus.LachnospiraceaeND3007group.id.11317</i>	MR Egger	3	-6.948	8.742	0.572
	Weighted median	3	1.157	0.654	0.077
	Inverse variance weighted	3	0.916	0.519	0.078
	Simple mode	3	1.218	0.742	0.242
	Weighted mode	3	1.218	0.734	0.239
<i>genus.LachnospiraceaeNK4A136group.id.11319</i>	MR Egger	15	0.303	0.476	0.535
	Weighted median	15	0.409	0.299	0.170
	Inverse variance weighted	15	0.088	0.233	0.704
	Simple mode	15	0.286	0.559	0.617
	Weighted mode	15	0.401	0.376	0.304
<i>genus.LachnospiraceaeUCG001.id.11321</i>	MR Egger	12	0.667	0.762	0.402
	Weighted median	12	0.121	0.253	0.632
	Inverse variance weighted	12	0.074	0.191	0.700
	Simple mode	12	0.026	0.404	0.949
	Weighted mode	12	0.093	0.393	0.818
<i>genus.LachnospiraceaeUCG004.id.11324</i>	MR Egger	12	0.148	1.318	0.913
	Weighted median	12	0.497	0.356	0.163
	Inverse variance weighted	12	0.424	0.303	0.162
	Simple mode	12	0.667	0.638	0.319
	Weighted mode	12	0.640	0.566	0.282
<i>genus.LachnospiraceaeUCG008.id.11328</i>	MR Egger	10	-0.554	1.344	0.691
	Weighted median	10	-0.186	0.275	0.499
	Inverse variance weighted	10	-0.066	0.250	0.792
	Simple mode	10	-0.578	0.534	0.307
	Weighted mode	10	-0.559	0.552	0.337
<i>genus.LachnospiraceaeUCG010.id.11330</i>	MR Egger	10	-0.233	0.786	0.774
	Weighted median	10	0.133	0.330	0.686
	Inverse variance weighted	10	0.176	0.259	0.498
	Simple mode	10	0.106	0.501	0.838
	Weighted mode	10	0.124	0.480	0.802
<i>genus.Lactobacillus.id.1837</i>	MR Egger	8	0.310	0.615	0.632
	Weighted median	8	0.041	0.258	0.875
	Inverse variance weighted	8	-0.147	0.233	0.529
	Simple mode	8	-0.734	0.457	0.152
	Weighted mode	8	0.091	0.338	0.796
<i>genus.Lactococcus.id.1851</i>	MR Egger	9	0.765	0.950	0.447

	Weighted median	9	-0.105	0.217	0.629
	Inverse variance weighted	9	0.023	0.207	0.913
	Simple mode	9	-0.216	0.352	0.556
	Weighted mode	9	-0.271	0.374	0.489
<i>genus.Marvinbryantia.id.2005</i>	MR Egger	10	0.346	1.248	0.789
	Weighted median	10	0.020	0.343	0.954
	Inverse variance weighted	10	0.031	0.302	0.917
	Simple mode	10	-0.041	0.532	0.940
	Weighted mode	10	-0.167	0.438	0.712
<i>genus.Methanobrevibacter.id.123</i>	MR Egger	6	-0.836	0.725	0.313
	Weighted median	6	-0.060	0.240	0.802
	Inverse variance weighted	6	-0.062	0.195	0.749
	Simple mode	6	-0.107	0.325	0.756
	Weighted mode	6	-0.119	0.304	0.712
<i>genus.Odoribacter.id.952</i>	MR Egger	7	0.335	1.227	0.796
	Weighted median	7	-0.138	0.430	0.749
	Inverse variance weighted	7	-0.066	0.362	0.856
	Simple mode	7	-0.562	0.801	0.509
	Weighted mode	7	-0.630	0.734	0.424
<i>genus.Olsenella.id.822</i>	MR Egger	10	-0.016	0.594	0.980
	Weighted median	10	-0.055	0.177	0.755
	Inverse variance weighted	10	-0.048	0.175	0.782
	Simple mode	10	-0.189	0.272	0.505
	Weighted mode	10	-0.093	0.236	0.702
<i>genus.Oscillibacter.id.2063</i>	MR Egger	13	-0.378	0.673	0.586
	Weighted median	13	0.444	0.240	0.065
	Inverse variance weighted	13	0.287	0.178	0.106
	Simple mode	13	0.491	0.461	0.308
	Weighted mode	13	0.515	0.468	0.293
<i>genus.Oscillospira.id.2064</i>	MR Egger	7	-0.383	1.145	0.752
	Weighted median	7	0.174	0.314	0.579
	Inverse variance weighted	7	-0.059	0.258	0.820
	Simple mode	7	0.202	0.499	0.700
	Weighted mode	7	0.192	0.470	0.697
<i>genus.Oxalobacter.id.2978</i>	MR Egger	11	-0.625	0.716	0.406
	Weighted median	11	-0.078	0.188	0.677
	Inverse variance weighted	11	-0.145	0.148	0.330
	Simple mode	11	-0.078	0.300	0.801
	Weighted mode	11	-0.028	0.280	0.923
<i>genus.Parabacteroides.id.954</i>	MR Egger	5	2.148	2.397	0.436
	Weighted median	5	-0.064	0.496	0.898

	Inverse variance weighted	5	0.009	0.385	0.981
	Simple mode	5	-0.119	0.617	0.856
	Weighted mode	5	-0.090	0.629	0.893
<i>genus.Paraprevotella.id.962</i>	MR Egger	13	-0.193	0.587	0.749
	Weighted median	13	0.233	0.206	0.256
	Inverse variance weighted	13	0.028	0.152	0.855
	Simple mode	13	0.312	0.326	0.357
	Weighted mode	13	0.312	0.325	0.355
<i>genus.Parasutterella.id.2892</i>	MR Egger	14	0.137	0.502	0.789
	Weighted median	14	0.251	0.238	0.291
	Inverse variance weighted	14	0.118	0.181	0.514
	Simple mode	14	0.285	0.393	0.482
	Weighted mode	14	0.307	0.354	0.402
<i>genus.Peptococcus.id.2037</i>	MR Egger	12	-0.501	0.701	0.491
	Weighted median	12	-0.154	0.218	0.479
	Inverse variance weighted	12	0.007	0.177	0.967
	Simple mode	12	-0.286	0.367	0.452
	Weighted mode	12	-0.262	0.334	0.450
<i>genus.Phascolarctobacterium.id.2168</i>	MR Egger	9	-0.409	1.434	0.784
	Weighted median	9	-0.209	0.351	0.552
	Inverse variance weighted	9	-0.300	0.298	0.314
	Simple mode	9	-0.236	0.665	0.732
	Weighted mode	9	0.144	0.617	0.821
<i>genus.Prevotella7.id.11182</i>	MR Egger	11	-1.018	0.792	0.231
	Weighted median	11	-0.082	0.177	0.644
	Inverse variance weighted	11	-0.216	0.136	0.112
	Simple mode	11	-0.651	0.333	0.079
	Weighted mode	11	-0.008	0.320	0.981
<i>genus.Prevotella9.id.11183</i>	MR Egger	15	0.351	0.559	0.541
	Weighted median	15	0.182	0.241	0.451
	Inverse variance weighted	15	0.150	0.185	0.419
	Simple mode	15	0.110	0.404	0.790
	Weighted mode	15	0.233	0.358	0.526
<i>genus.RikenellaceaeRC9gutgroup.id.11191</i>	MR Egger	11	-0.077	1.024	0.942
	Weighted median	11	-0.015	0.177	0.934
	Inverse variance weighted	11	-0.138	0.156	0.376
	Simple mode	11	0.149	0.349	0.678
	Weighted mode	11	0.168	0.325	0.616
<i>genus.Romboutsia.id.11347</i>	MR Egger	13	-0.286	0.649	0.668
	Weighted median	13	-0.081	0.296	0.785

	Inverse variance weighted	13	0.105	0.223	0.638
	Simple mode	13	-0.072	0.489	0.886
	Weighted mode	13	-0.109	0.489	0.827
<i>genus.Roseburia.id.2012</i>	MR Egger	13	-0.310	0.765	0.693
	Weighted median	13	-0.220	0.355	0.536
	Inverse variance weighted	13	-0.013	0.254	0.959
	Simple mode	13	-0.341	0.603	0.583
	Weighted mode	13	-0.357	0.540	0.521
<i>genus.Ruminiclostridium5.id.11355</i>	MR Egger	11	-0.026	1.147	0.982
	Weighted median	11	-0.043	0.363	0.905
	Inverse variance weighted	11	-0.101	0.275	0.712
	Simple mode	11	0.404	0.624	0.532
	Weighted mode	11	0.318	0.555	0.579
<i>genus.Ruminiclostridium6.id.11356</i>	MR Egger	14	0.472	0.525	0.386
	Weighted median	14	-0.194	0.300	0.517
	Inverse variance weighted	14	-0.003	0.218	0.987
	Simple mode	14	-0.367	0.530	0.501
	Weighted mode	14	-0.339	0.650	0.611
<i>genus.Ruminiclostridium9.id.11357</i>	MR Egger	7	-2.593	1.944	0.240
	Weighted median	7	-0.233	0.476	0.624
	Inverse variance weighted	7	-0.422	0.438	0.336
	Simple mode	7	0.007	0.728	0.992
	Weighted mode	7	0.068	0.647	0.920
<i>genus.RuminococcaceaeNK4A214group.i d.11358</i>	MR Egger	13	0.498	0.765	0.529
	Weighted median	13	0.424	0.327	0.194
	Inverse variance weighted	13	0.413	0.232	0.075
	Simple mode	13	-0.132	0.548	0.814
	Weighted mode	13	0.485	0.503	0.354
<i>genus.RuminococcaceaeUCG002.id.1136 0</i>	MR Egger	19	-0.563	0.627	0.382
	Weighted median	19	-0.077	0.294	0.795
	Inverse variance weighted	19	-0.171	0.241	0.479
	Simple mode	19	-0.270	0.476	0.578
	Weighted mode	19	-0.029	0.375	0.939
<i>genus.RuminococcaceaeUCG003.id.1136 1</i>	MR Egger	12	0.654	0.734	0.394
	Weighted median	12	0.029	0.288	0.920
	Inverse variance weighted	12	0.108	0.225	0.632
	Simple mode	12	-0.106	0.479	0.828
	Weighted mode	12	-0.086	0.447	0.850

genus.RuminococcaceaeUCG004.id.1136 2	MR Egger	11	0.454	1.136	0.699
	Weighted median	11	0.135	0.271	0.617
	Inverse variance weighted	11	0.220	0.204	0.282
	Simple mode	11	0.164	0.475	0.738
	Weighted mode	11	0.139	0.436	0.757
genus.RuminococcaceaeUCG005.id.1136 3	MR Egger	14	-0.410	0.571	0.487
	Weighted median	14	0.000	0.288	0.999
	Inverse variance weighted	14	-0.033	0.210	0.874
	Simple mode	14	-0.031	0.428	0.943
	Weighted mode	14	-0.066	0.370	0.862
genus.RuminococcaceaeUCG009.id.1136 6	MR Egger	12	-0.415	1.270	0.751
	Weighted median	12	-0.451	0.271	0.096
	Inverse variance weighted	12	-0.317	0.303	0.296
	Simple mode	12	-0.353	0.416	0.413
	Weighted mode	12	-0.323	0.353	0.379
genus.RuminococcaceaeUCG010.id.1136 7	MR Egger	6	-0.151	0.857	0.869
	Weighted median	6	-0.096	0.367	0.793
	Inverse variance weighted	6	0.123	0.295	0.676
	Simple mode	6	-0.409	0.530	0.475
	Weighted mode	6	-0.276	0.464	0.578
genus.RuminococcaceaeUCG011.id.1136 8	MR Egger	8	-0.467	0.714	0.537
	Weighted median	8	-0.200	0.195	0.305
	Inverse variance weighted	8	-0.170	0.143	0.234
	Simple mode	8	-0.060	0.289	0.842
	Weighted mode	8	-0.173	0.269	0.541
genus.RuminococcaceaeUCG013.id.1137 0	MR Egger	11	0.449	0.730	0.554
	Weighted median	11	0.188	0.345	0.585
	Inverse variance weighted	11	0.004	0.254	0.989
	Simple mode	11	0.104	0.577	0.861
	Weighted mode	11	0.145	0.523	0.787
genus.RuminococcaceaeUCG014.id.1137 1	MR Egger	11	0.773	0.531	0.180
	Weighted median	11	0.124	0.311	0.690
	Inverse variance weighted	11	0.201	0.224	0.371
	Simple mode	11	-0.022	0.501	0.966
	Weighted mode	11	0.016	0.394	0.967

<i>genus.Ruminococcus1.id.11373</i>	MR Egger	10	0.908	0.694	0.227
	Weighted median	10	0.112	0.332	0.735
	Inverse variance weighted	10	0.258	0.254	0.311
	Simple mode	10	0.066	0.566	0.910
	Weighted mode	10	0.107	0.528	0.844
<i>genus.Ruminococcus2.id.11374</i>	MR Egger	14	0.801	0.522	0.151
	Weighted median	14	0.504	0.282	0.074
	Inverse variance weighted	14	0.140	0.230	0.542
	Simple mode	14	0.447	0.489	0.377
	Weighted mode	14	0.540	0.353	0.151
<i>genus.Sellimos.id.14369</i>	MR Egger	9	0.038	0.985	0.971
	Weighted median	9	-0.153	0.187	0.412
	Inverse variance weighted	9	0.022	0.158	0.888
	Simple mode	9	-0.190	0.293	0.536
	Weighted mode	9	-0.178	0.276	0.537
<i>genus.Senegalimassilia.id.11160</i>	MR Egger	6	-0.021	1.070	0.985
	Weighted median	6	-0.050	0.295	0.865
	Inverse variance weighted	6	-0.081	0.254	0.751
	Simple mode	6	0.043	0.426	0.923
	Weighted mode	6	0.038	0.415	0.931
<i>genus.Slackia.id.825</i>	MR Egger	6	1.151	1.780	0.553
	Weighted median	6	0.020	0.309	0.947
	Inverse variance weighted	6	0.281	0.253	0.268
	Simple mode	6	-0.067	0.436	0.884
	Weighted mode	6	-0.062	0.370	0.874
<i>genus.Streptococcus.id.1853</i>	MR Egger	13	1.384	0.865	0.138
	Weighted median	13	0.366	0.322	0.255
	Inverse variance weighted	13	0.218	0.250	0.383
	Simple mode	13	0.575	0.572	0.334
	Weighted mode	13	0.557	0.468	0.257
<i>genus.Subdoligranulum.id.2070</i>	MR Egger	11	-0.273	0.755	0.726
	Weighted median	11	-0.396	0.382	0.300
	Inverse variance weighted	11	-0.270	0.278	0.331
	Simple mode	11	-0.868	0.648	0.210
	Weighted mode	11	-0.821	0.538	0.158
<i>genus.Sutterella.id.2896</i>	MR Egger	12	-1.152	1.108	0.323
	Weighted median	12	0.368	0.327	0.260
	Inverse variance weighted	12	0.130	0.261	0.619
	Simple mode	12	0.540	0.603	0.389
	Weighted mode	12	0.530	0.684	0.455
<i>genus.Terrisporobacter.id.11348</i>	MR Egger	5	-0.537	0.795	0.548

	Weighted median	5	-0.362	0.318	0.255
	Inverse variance weighted	5	-0.240	0.264	0.364
	Simple mode	5	-0.429	0.418	0.363
	Weighted mode	5	-0.432	0.415	0.357
<i>genus.Turicibacter.id.2162</i>	MR Egger	8	-1.478	0.891	0.148
	Weighted median	8	-0.458	0.310	0.139
	Inverse variance weighted	8	-0.202	0.223	0.366
	Simple mode	8	-0.483	0.477	0.345
	Weighted mode	8	-0.475	0.418	0.293
<i>genus.Tyzzarella3.id.11335</i>	MR Egger	13	-0.069	1.123	0.952
	Weighted median	13	-0.046	0.199	0.818
	Inverse variance weighted	13	0.137	0.188	0.465
	Simple mode	13	-0.095	0.285	0.745
	Weighted mode	13	-0.082	0.240	0.740
<i>genus.Veillonella.id.2198</i>	MR Egger	6	-1.494	2.202	0.535
	Weighted median	6	-0.712	0.345	0.039
	Inverse variance weighted	6	-0.748	0.277	0.007
	Simple mode	6	-0.590	0.531	0.317
	Weighted mode	6	-0.549	0.525	0.344
<i>genus.Victivallis.id.2256</i>	MR Egger	10	1.224	1.013	0.262
	Weighted median	10	0.275	0.179	0.125
	Inverse variance weighted	10	0.203	0.133	0.125
	Simple mode	10	0.307	0.267	0.279
	Weighted mode	10	0.316	0.274	0.279
<i>genus.unknowngenus.id.1000000073</i>	MR Egger	15	-0.986	0.487	0.064
	Weighted median	15	-0.335	0.236	0.156
	Inverse variance weighted	15	-0.278	0.177	0.117
	Simple mode	15	-0.510	0.413	0.237
	Weighted mode	15	-0.510	0.366	0.185
<i>genus.unknowngenus.id.1000001215</i>	MR Egger	9	0.788	0.536	0.185
	Weighted median	9	0.249	0.240	0.299
	Inverse variance weighted	9	0.328	0.178	0.066
	Simple mode	9	0.776	0.415	0.098
	Weighted mode	9	0.072	0.379	0.855
<i>genus.unknowngenus.id.1000005472</i>	MR Egger	12	-0.234	0.544	0.676
	Weighted median	12	-0.019	0.280	0.946
	Inverse variance weighted	12	0.003	0.194	0.989
	Simple mode	12	0.010	0.430	0.981
	Weighted mode	12	-0.024	0.394	0.952
<i>genus.unknowngenus.id.1000005479</i>	MR Egger	8	-0.681	0.774	0.413
	Weighted median	8	-0.313	0.276	0.257

	Inverse variance weighted	8	-0.137	0.202	0.498
	Simple mode	8	-0.442	0.465	0.374
	Weighted mode	8	-0.449	0.414	0.315
<i>genus.unknowngenus.id.1000006162</i>	MR Egger	12	-0.015	0.609	0.981
	Weighted median	12	0.228	0.191	0.231
	Inverse variance weighted	12	0.170	0.142	0.232
	Simple mode	12	0.335	0.333	0.336
	Weighted mode	12	0.324	0.311	0.319
<i>genus.unknowngenus.id.1868</i>	MR Egger	10	-0.402	0.847	0.648
	Weighted median	10	-0.359	0.302	0.234
	Inverse variance weighted	10	-0.325	0.244	0.182
	Simple mode	10	-0.877	0.537	0.137
	Weighted mode	10	-0.847	0.518	0.136
<i>genus.unknowngenus.id.2001</i>	MR Egger	8	1.112	0.587	0.107
	Weighted median	8	0.115	0.292	0.693
	Inverse variance weighted	8	0.017	0.217	0.939
	Simple mode	8	0.019	0.509	0.971
	Weighted mode	8	0.305	0.359	0.424
<i>genus.unknowngenus.id.2041</i>	MR Egger	12	0.891	0.700	0.231
	Weighted median	12	0.095	0.269	0.725
	Inverse variance weighted	12	0.064	0.223	0.774
	Simple mode	12	0.478	0.538	0.393
	Weighted mode	12	0.419	0.506	0.425
<i>genus.unknowngenus.id.2071</i>	MR Egger	15	-1.787	1.166	0.149
	Weighted median	15	-0.257	0.300	0.391
	Inverse variance weighted	15	-0.035	0.243	0.886
	Simple mode	15	-0.516	0.554	0.367
	Weighted mode	15	-0.516	0.556	0.369
<i>genus.unknowngenus.id.2755</i>	MR Egger	13	0.819	0.618	0.212
	Weighted median	13	0.073	0.218	0.736
	Inverse variance weighted	13	0.133	0.165	0.419
	Simple mode	13	-0.205	0.428	0.640
	Weighted mode	13	-0.212	0.360	0.566
<i>genus.unknowngenus.id.826</i>	MR Egger	13	-0.666	0.649	0.327
	Weighted median	13	-0.116	0.291	0.690
	Inverse variance weighted	13	-0.278	0.222	0.210
	Simple mode	13	0.033	0.507	0.950
	Weighted mode	13	-0.008	0.497	0.987
<i>genus.unknowngenus.id.959</i>	MR Egger	11	0.261	1.000	0.800
	Weighted median	11	0.005	0.215	0.982
	Inverse variance weighted	11	0.134	0.185	0.466

	Simple mode	11	-0.113	0.381	0.772
	Weighted mode	11	-0.113	0.360	0.760
<i>order.Actinomycetales.id.420</i>	MR Egger	4	0.879	0.614	0.289
	Weighted median	4	-0.126	0.329	0.703
	Inverse variance weighted	4	0.011	0.304	0.970
	Simple mode	4	-0.503	0.660	0.501
	Weighted mode	4	0.497	0.381	0.283
<i>order.Bacillales.id.1674</i>	MR Egger	8	0.334	0.643	0.622
	Weighted median	8	-0.049	0.189	0.798
	Inverse variance weighted	8	-0.051	0.152	0.738
	Simple mode	8	-0.157	0.287	0.602
	Weighted mode	8	-0.127	0.255	0.633
<i>order.Bacteroidales.id.913</i>	MR Egger	13	-0.643	0.633	0.331
	Weighted median	13	-0.046	0.357	0.897
	Inverse variance weighted	13	0.186	0.262	0.477
	Simple mode	13	-0.117	0.608	0.851
	Weighted mode	13	-0.232	0.572	0.692
<i>order.Bifidobacteriales.id.432</i>	MR Egger	11	-1.535	0.898	0.121
	Weighted median	11	-0.307	0.336	0.361
	Inverse variance weighted	11	0.100	0.310	0.747
	Simple mode	11	0.830	0.737	0.286
	Weighted mode	11	-0.623	0.419	0.168
<i>order.Burkholderiales.id.2874</i>	MR Egger	10	-1.261	0.875	0.187
	Weighted median	10	-0.376	0.390	0.335
	Inverse variance weighted	10	-0.294	0.277	0.288
	Simple mode	10	0.491	0.666	0.480
	Weighted mode	10	-0.731	0.590	0.247
<i>order.Clostridiales.id.1863</i>	MR Egger	14	-0.353	1.042	0.741
	Weighted median	14	0.327	0.338	0.334
	Inverse variance weighted	14	0.172	0.250	0.492
	Simple mode	14	0.687	0.613	0.283
	Weighted mode	14	0.640	0.520	0.240
<i>order.Coriobacteriales.id.810</i>	MR Egger	13	0.439	1.153	0.711
	Weighted median	13	0.373	0.351	0.289
	Inverse variance weighted	13	0.007	0.262	0.979
	Simple mode	13	0.401	0.675	0.564
	Weighted mode	13	0.434	0.616	0.495
<i>order.Desulfovibrionales.id.3156</i>	MR Egger	10	-1.423	1.466	0.360
	Weighted median	10	-0.030	0.376	0.937
	Inverse variance weighted	10	-0.080	0.295	0.788
	Simple mode	10	0.041	0.556	0.942

	Weighted mode	10	-0.030	0.564	0.959
<i>order.Enterobacteriales.id.3468</i>	MR Egger	6	-2.334	2.414	0.388
	Weighted median	6	-0.094	0.425	0.824
	Inverse variance weighted	6	-0.205	0.347	0.555
	Simple mode	6	-0.132	0.655	0.848
	Weighted mode	6	-0.051	0.614	0.937
<i>order.Erysipelotrichales.id.2148</i>	MR Egger	13	-1.689	1.248	0.203
	Weighted median	13	0.205	0.371	0.580
	Inverse variance weighted	13	-0.110	0.296	0.710
	Simple mode	13	0.173	0.584	0.772
	Weighted mode	13	0.266	0.564	0.646
<i>order.Gastraerophilales.id.1591</i>	MR Egger	9	0.788	0.536	0.185
	Weighted median	9	0.249	0.255	0.329
	Inverse variance weighted	9	0.328	0.178	0.066
	Simple mode	9	0.776	0.444	0.118
	Weighted mode	9	0.072	0.365	0.849
<i>order.Lactobacillales.id.1800</i>	MR Egger	15	0.462	0.586	0.444
	Weighted median	15	0.161	0.339	0.636
	Inverse variance weighted	15	0.181	0.228	0.427
	Simple mode	15	-0.455	0.606	0.465
	Weighted mode	15	-0.277	0.504	0.591
<i>order.Methanobacteriales.id.120</i>	MR Egger	8	-0.356	0.944	0.719
	Weighted median	8	-0.151	0.222	0.496
	Inverse variance weighted	8	-0.035	0.225	0.877
	Simple mode	8	-0.120	0.363	0.750
	Weighted mode	8	-0.128	0.295	0.676
<i>order.MollicutesRF9.id.11579</i>	MR Egger	12	-0.234	0.544	0.676
	Weighted median	12	-0.019	0.264	0.942
	Inverse variance weighted	12	0.003	0.194	0.989
	Simple mode	12	0.010	0.441	0.982
	Weighted mode	12	-0.024	0.428	0.956
<i>order.NB1n.id.3953</i>	MR Egger	12	-0.015	0.609	0.981
	Weighted median	12	0.228	0.184	0.214
	Inverse variance weighted	12	0.170	0.142	0.232
	Simple mode	12	0.335	0.331	0.334
	Weighted mode	12	0.324	0.317	0.329
<i>order.Pasteurellales.id.3688</i>	MR Egger	13	-0.227	0.380	0.563
	Weighted median	13	-0.168	0.227	0.460
	Inverse variance weighted	13	-0.158	0.170	0.353
	Simple mode	13	-0.284	0.376	0.464
	Weighted mode	13	-0.423	0.378	0.285

<i>order.Rhodospirillales.id.2667</i>	MR Egger	14	0.495	0.667	0.473
	Weighted median	14	-0.041	0.223	0.855
	Inverse variance weighted	14	0.082	0.164	0.619
	Simple mode	14	-0.189	0.394	0.638
	Weighted mode	14	-0.216	0.407	0.604
<i>order.Selenomodales.id.2165</i>	MR Egger	11	-1.010	0.914	0.298
	Weighted median	11	0.152	0.346	0.661
	Inverse variance weighted	11	0.294	0.273	0.282
	Simple mode	11	0.116	0.615	0.854
	Weighted mode	11	0.059	0.574	0.920
<i>order.Verrucomicrobiales.id.4030</i>	MR Egger	11	0.912	0.742	0.251
	Weighted median	11	-0.105	0.284	0.713
	Inverse variance weighted	11	-0.042	0.222	0.851
	Simple mode	11	-0.420	0.542	0.456
	Weighted mode	11	0.526	0.517	0.333
<i>order.Victivallales.id.2254</i>	MR Egger	8	0.193	0.921	0.841
	Weighted median	8	0.403	0.220	0.067
	Inverse variance weighted	8	0.309	0.240	0.199
	Simple mode	8	0.413	0.291	0.199
	Weighted mode	8	0.413	0.294	0.203
<i>phylum.Actinobacteria.id.400</i>	MR Egger	14	-0.272	1.055	0.801
	Weighted median	14	-0.411	0.334	0.219
	Inverse variance weighted	14	-0.273	0.245	0.265
	Simple mode	14	-0.412	0.506	0.431
	Weighted mode	14	-0.663	0.463	0.175
<i>phylum.Bacteroidetes.id.905</i>	MR Egger	11	-0.470	0.633	0.477
	Weighted median	11	-0.022	0.388	0.955
	Inverse variance weighted	11	0.107	0.274	0.697
	Simple mode	11	-0.058	0.602	0.926
	Weighted mode	11	-0.210	0.530	0.700
<i>phylum.Cyanobacteria.id.1500</i>	MR Egger	8	-0.362	0.976	0.724
	Weighted median	8	-0.200	0.288	0.488
	Inverse variance weighted	8	0.057	0.258	0.824
	Simple mode	8	-0.368	0.424	0.415
	Weighted mode	8	-0.298	0.391	0.471
<i>phylum.Euryarchaeota.id.55</i>	MR Egger	11	-1.083	0.692	0.152
	Weighted median	11	-0.184	0.189	0.330
	Inverse variance weighted	11	-0.075	0.166	0.651
	Simple mode	11	-0.218	0.319	0.510
	Weighted mode	11	-0.224	0.303	0.478

<i>phylum.Firmicutes.id.1672</i>	MR Egger	14	0.210	0.601	0.733
	Weighted median	14	-0.132	0.319	0.679
	Inverse variance weighted	14	-0.191	0.230	0.406
	Simple mode	14	-0.278	0.499	0.587
	Weighted mode	14	-0.203	0.426	0.641
<i>phylum.Lentisphaerae.id.2238</i>	MR Egger	9	0.127	0.860	0.887
	Weighted median	9	0.336	0.212	0.114
	Inverse variance weighted	9	0.283	0.212	0.183
	Simple mode	9	0.367	0.301	0.258
	Weighted mode	9	0.345	0.280	0.253
<i>phylum.Proteobacteria.id.2375</i>	MR Egger	12	0.139	0.806	0.866
	Weighted median	12	-0.063	0.358	0.861
	Inverse variance weighted	12	-0.045	0.276	0.869
	Simple mode	12	0.007	0.570	0.991
	Weighted mode	12	0.033	0.459	0.944
<i>phylum.Tenericutes.id.3919</i>	MR Egger	11	0.003	0.741	0.997
	Weighted median	11	0.017	0.298	0.955
	Inverse variance weighted	11	-0.047	0.220	0.831
	Simple mode	11	-0.687	0.498	0.198
	Weighted mode	11	0.072	0.455	0.877
<i>phylum.Verrucomicrobia.id.3982</i>	MR Egger	12	1.075	0.550	0.079
	Weighted median	12	0.116	0.299	0.699
	Inverse variance weighted	12	0.025	0.222	0.910
	Simple mode	12	-0.595	0.565	0.314
	Weighted mode	12	0.310	0.439	0.494

MR, Mendelian randomization; SNP, single nucleotide polymorphism

Table S2 The heterogeneity of gut microbiota instrumental variables.

Bacterial taxa (exposure)	Method	Cochran's Q	Q_df	Q_pval
<i>class.Actinobacteria.id.419</i>	MR Egger	10.311	13.000	0.668
<i>class.Actinobacteria.id.419</i>	Inverse variance weighted	10.902	14.000	0.694
<i>family.FamilyXI.id.1936</i>	MR Egger	1.871	6.000	0.931
<i>family.FamilyXI.id.1936</i>	Inverse variance weighted	2.540	7.000	0.924
<i>family.Streptococcaceae.id.1850</i>	MR Egger	3.124	10.000	0.978
<i>family.Streptococcaceae.id.1850</i>	Inverse variance weighted	3.128	11.000	0.989
<i>genus.Intestinibacter.id.11345</i>	MR Egger	11.720	13.000	0.551
<i>genus.Intestinibacter.id.11345</i>	Inverse variance weighted	11.740	14.000	0.627
<i>genus.Intestinimonas.id.2062</i>	MR Egger	6.299	14.000	0.958
<i>genus.Intestinimonas.id.2062</i>	Inverse variance weighted	8.047	15.000	0.922
<i>genus.Veillonella.id.2198</i>	MR Egger	2.314	4.000	0.678
<i>genus.Veillonella.id.2198</i>	Inverse variance weighted	2.431	5.000	0.787

df, degree of freedom.

Table S3 Directional horizontal pleiotropy assessed by intercept term in MR Egger regression of the association between gut microbiota and renal malignancy.

Bacterial taxa (exposure)	Egger_intercept	SE	P-value
<i>class.Actinobacteria.id.419</i>	-0.033	0.043	0.456
<i>family.FamilyXI.id.1936</i>	0.094	0.114	0.445
<i>family.Streptococcaceae.id.1850</i>	0.006	0.088	0.946
<i>genus.Intestinibacter.id.11345</i>	-0.007	0.050	0.890
<i>genus.Intestinimonas.id.2062</i>	-0.058	0.044	0.207
<i>genus.Veillonella.id.2198</i>	0.057	0.167	0.750

MR, Mendelian randomization; SE, standard error.