

Supplementary table 2: Network enrichment pathways obtained from metagenomics between CECT and HFS groups comparison.

Pathway	Size	Hits	Statistic Q	Expected Q	Pval	Holm p	FDR
Sphingolipid metabolism	3	3	26.99644	7.14286	0.01590	1	0.26479
Glutathione metabolism	5	5	26.61082	7.14286	0.02869	1	0.26479
Galactose metabolism	13	13	18.07580	7.14286	0.04668	1	0.26479
Cysteine and methionine metabolism	25	25	18.37326	7.14286	0.05522	1	0.26479
Pantothenate and CoA biosynthesis	13	13	23.46584	7.14286	0.05971	1	0.26479
Methane metabolism	40	40	18.71696	7.14286	0.06433	1	0.26479
O-Antigen nucleotide sugar biosynthesis	17	17	20.42667	7.14286	0.06554	1	0.26479
Tryptophan metabolism	10	10	21.42415	7.14286	0.06911	1	0.26479
Amino sugar and nucleotide sugar metabolism	28	28	17.15089	7.14286	0.07425	1	0.26479
Selenocompound metabolism	6	6	17.17711	7.14286	0.07538	1	0.26479
Taurine and hypotaurine metabolism	3	3	21.57660	7.14286	0.07936	1	0.26479
Drug metabolism - other enzymes	12	12	18.01424	7.14286	0.08323	1	0.26479
D-Amino acid metabolism	4	4	21.13248	7.14286	0.08462	1	0.26479
Caprolactam degradation	4	4	20.21817	7.14286	0.08530	1	0.26479
Lipoarabinomannan (LAM) biosynthesis	2	2	20.90599	7.14286	0.08636	1	0.26479
Valine, leucine and isoleucine biosynthesis	9	9	20.44619	7.14286	0.08737	1	0.26479
Nitrotoluene degradation	2	2	20.23091	7.14286	0.08891	1	0.26479
One carbon pool by folate	7	7	20.33970	7.14286	0.08931	1	0.26479
Phenylpropanoid biosynthesis	2	2	20.00892	7.14286	0.09074	1	0.26479
Dioxin degradation	2	2	20.37957	7.14286	0.09110	1	0.26479
Glucosinolate biosynthesis	2	2	20.11038	7.14286	0.09282	1	0.26479
Lipopolysaccharide biosynthesis	4	4	20.17419	7.14286	0.09294	1	0.26479
Pyrimidine metabolism	29	29	16.82990	7.14286	0.09369	1	0.26479
Monobactam biosynthesis	5	5	19.50824	7.14286	0.09398	1	0.26479
Riboflavin metabolism	13	13	17.15793	7.14286	0.09429	1	0.26479
C5-Branched dibasic acid metabolism	5	5	19.41669	7.14286	0.09511	1	0.26479
N-Glycan biosynthesis	3	3	17.94041	7.14286	0.09772	1	0.26479
Fatty acid degradation	13	13	16.27849	7.14286	0.09776	1	0.26479
Purine metabolism	39	39	17.02769	7.14286	0.10222	1	0.26479
Glycerolipid metabolism	7	7	14.11873	7.14286	0.10230	1	0.26479
Glycolysis / Gluconeogenesis	25	25	14.51119	7.14286	0.10363	1	0.26479
Naphthalene degradation	4	4	16.84058	7.14286	0.11103	1	0.26479
Fatty acid biosynthesis	6	6	17.87427	7.14286	0.11200	1	0.26479
Carbon fixation in photosynthetic organisms	14	14	14.65313	7.14286	0.11315	1	0.26479
Sulfur metabolism	14	14	14.86219	7.14286	0.11370	1	0.26479
Drug metabolism - cytochrome P450	4	4	16.52431	7.14286	0.11481	1	0.26479
Arginine and proline metabolism	18	18	15.43635	7.14286	0.11597	1	0.26479
Nitrogen metabolism	12	12	14.30621	7.14286	0.11866	1	0.26479
Acarbose and validamycin biosynthesis	2	2	17.48784	7.14286	0.11944	1	0.26479

