**Supplementary Table 5. Differences of gut microbial in nonhyperlipidemic human subjects**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | **NL****(*n* = 20)** | **FL1****(*n* = 10)** | **FL2****(*n* = 10)** | **NL vs. FL1 vs. FL2a** | **NL vs. FLb** | **NL vs. FL1b** | **NL vs. FL2b** | **FL1 vs. FL2b** |
| *Cyanobacteria*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.02 | 0.8 | 0.1 | 0.09 | 0.01 |
| *Anaerostipes*a | 0.34 (0.07, 0.56) | 0.07 (0.02, 0.49) | 0.09 (0.01, 0.21) | 0.05 | 0.04 | 0.37 | 0.02 | 0.25 |
| *Bilophila*a | 0.08 (0.01, 0.16) | 0.26 (0.09, 0.59) | 0.23 (0.06, 0.37) | 0.1 | 0.04 | 0.06 | 0.15 | 0.53 |
| *Butyricicoccus*a | 0.15 (0.07, 0.2) | 0.07 (0.02, 0.13) | 0.15 (0.09, 0.24) | 0.09 | 0.19 | 0.03 | 0.98 | 0.13 |
| *Christensenella*a | 0 (0, 0) | 0 (0, 0.01) | 0 (0, 0.01) | 0.09 | 0.03 | 0.08 | 0.06 | 0.85 |
| *Cloacibacillus*a | 0 (0, 0) | 0 (0, 0.01) | 0.01 (0, 0.05) | 0.08 | 0.03 | 0.09 | 0.04 | 0.57 |
| *Enterococcus* | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.05 | 0.01 | 0.05 | 0.01 | 1 |
| *Faecalibacterium*a | 11.84 (6.23, 19.33) | 0.37 (0.01, 3.69) | 4.49 (1.88, 7.14) | < 0.01 | < 0.01 | < 0.01 | 0.04 | 0.06 |
| *Faecalicoccus*a | 0 (0, 0.01) | 0.01 (0, 0.01) | 0.01 (0, 0.02) | 0.1 | 0.07 | 0.41 | 0.03 | 0.34 |
| *Fusicatenibacter*a | 0.41 (0.22, 0.62) | 0.08 (0.01, 0.29) | 0.3 (0.2, 0.98) | 0.09 | 0.14 | 0.03 | 0.78 | 0.11 |
| *Lachnoanaerobaculum*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.15 | 0.17 | 0.68 | 0.06 | 0.08 |
| *Lachnospira*a | 0.02 (0, 0.26) | 0 (0, 0) | 0 (0, 0) | < 0.01 | < 0.01 | 0.01 | 0.02 | 0.84 |
| *Lachnospiracea\_incertae\_sedis*a | 3.34 (1.37, 6.6) | 0.75 (0.27, 1.59) | 0.57 (0.15, 1.25) | < 0.01 | < 0.01 | 0.02 | < 0.01 | 0.53 |
| *Mogibacterium*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.09 | 0.75 | 0.31 | 0.15 | 0.03 |
| *Roseburia*a | 1.11 (0.31, 2.25) | 0.17 (0.01, 0.59) | 0.85 (0.21, 2.41) | 0.06 | 0.15 | 0.02 | 0.98 | 0.09 |
| *Ruminococcus* 2a | 0.44 (0.15, 0.98) | 0.24 (0.16, 0.68) | 0.66 (0.5, 1.06) | 0.52 | 0.97 | 0.5 | 0.56 | 0.28 |
| *Solobacterium*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.09 | 0.56 | 0.51 | 0.06 | 0.03 |
| *Victivallis*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.05 | 0.16 | 1 | 0.05 | 0.17 |

aData are presented as median (first quartile, third quantile); b*p*-values based on different groups. FL1, mild fatty liver; FL2, moderately severe fatty liver; NL, normal liver.