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| **Supplementary Table 4. Difference of gut microbial in all human subjects.** |
| **Variables** | **NL****(*n* = 20)** | **FL1****(*n* = 20)** | **FL2****(*n* = 20)** | **NL vs. FL1 vs. FL2** | **NL vs. FLb** | **NL vs. FL1b** | **NL vs. FL2b** | **FL1 vs. FL2b** |
| *Cyanobacteria*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.08 | 0.36 | 0.81 | 0.09 | 0.05 |
| *Anaerostipes*a | 0.34 (0.07, 0.56) | 0.19 (0.03, 0.39) | 0.11 (0.02, 0.18) | 0.05 | 0.04 | 0.27 | 0.01 | 0.24 |
| *Bilophila*a | 0.08 (0.01, 0.16) | 0.1 (0.02, 0.29) | 0.09 (0.02, 0.36) | 0.51 | 0.25 | 0.32 | 0.32 | 1 |
| *Butyricicoccus*a | 0.15 (0.07, 0.2) | 0.1 (0.03, 0.15) | 0.17 (0.08, 0.25) | 0.1 | 0.38 | 0.06 | 0.7 | 0.08 |
| *Christensenella*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0.01) | 0.51 | 0.31 | 0.5 | 0.27 | 0.58 |
| *Cloacibacillus*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0.02) | 0.16 | 0.06 | 0.07 | 0.11 | 0.78 |
| *Enterococcus* | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.07 | 0.02 | 0.07 | 0.02 | 0.76 |
| *Faecalibacterium*a | 11.84 (6.23, 19.33) | 1.66 (0.03, 6.56) | 4.49 (1.25, 6.91) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.19 |
| *Faecalicoccus*a | 0 (0, 0.01) | 0 (0, 0.02) | 0.01 (0, 0.03) | 0.15 | 0.1 | 0.39 | 0.05 | 0.33 |
| *Fusicatenibacter*a | 0.41 (0.22, 0.62) | 0.09 (0.02, 0.3) | 0.3 (0.14, 1.03) | 0.03 | 0.11 | 0.02 | 0.74 | 0.03 |
| *Lachnoanaerobaculum*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.02 | 0.09 | 0.63 | < 0.01 | < 0.01 |
| *Lachnospira*a | 0.02 (0, 0.26) | 0 (0, 0.01) | 0 (0, 0) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | 0.94 |
| *Lachnospiracea\_incertae\_sedis*a | 3.34 (1.37, 6.6) | 1.57 (0.34, 3.11) | 0.82 (0.23, 2.17) | 0.04 | 0.01 | 0.06 | 0.02 | 0.46 |
| *Mogibacterium*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.08 | 0.91 | 0.21 | 0.36 | 0.03 |
| *Roseburia*a | 1.11 (0.31, 2.25) | 0.21 (0.09, 0.87) | 1.21 (0.23, 4.66) | 0.08 | 0.33 | 0.05 | 0.8 | 0.06 |
| *Ruminococcus* 2a | 0.44 (0.15, 0.98) | 0.24 (0.12, 0.85) | 0.94 (0.5, 1.73) | 0.06 | 0.64 | 0.49 | 0.13 | 0.02 |
| *Solobacterium*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.56 | 0.66 | 0.93 | 0.36 | 0.33 |
| *Victivallis*a | 0 (0, 0) | 0 (0, 0) | 0 (0, 0) | 0.04 | 0.22 | 1 | 0.08 | 0.08 |

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; HL, hyperlipidemia; NHL, non-hyperlipidemia.