**Table S1.** Relative abundance of each phylum at the bacterial phylum level in the Con and OwOb groups

|  |  |  |  |
| --- | --- | --- | --- |
| Phylum | Con group (n = 31) | OwOb group (n = 14) | *P* value |
| Firmicutes | 0.448 | 0.320 | 0.127 |
| Proteobacteria | 0.261  | 0.242  | 0.781 |
| Bacteroidota | 0.199  | 0.229  | 0.362 |
| Actinobacteriota | 0.038  | 0.129  | 0.002\*\* |
| Fusobacteriota | 0.039  | 0.044  | 0.526 |
| Desulfobacterota | 0.005  | 0.009  | 0.354 |
| Campilobacteria | 0.006 | 0.001 | 0.485 |
| Patescibacteria  | ＜0.001 | 0.006 | 0.009\*\* |

Asterisks denote the difference is significant between groups (*P* < 0.05 and \*\*P < 0.01).

Mann-Whitney U Test was used to analyze the data.