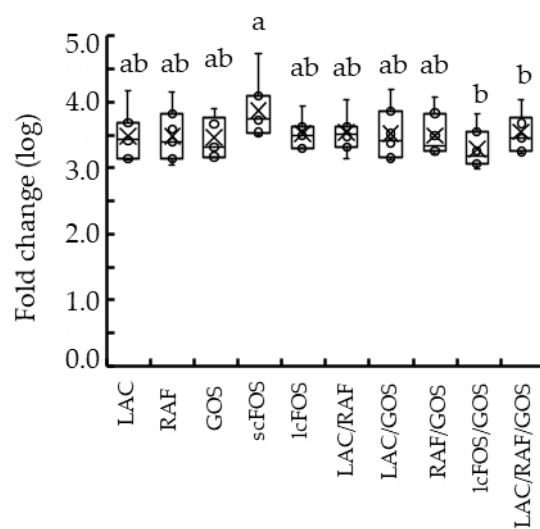




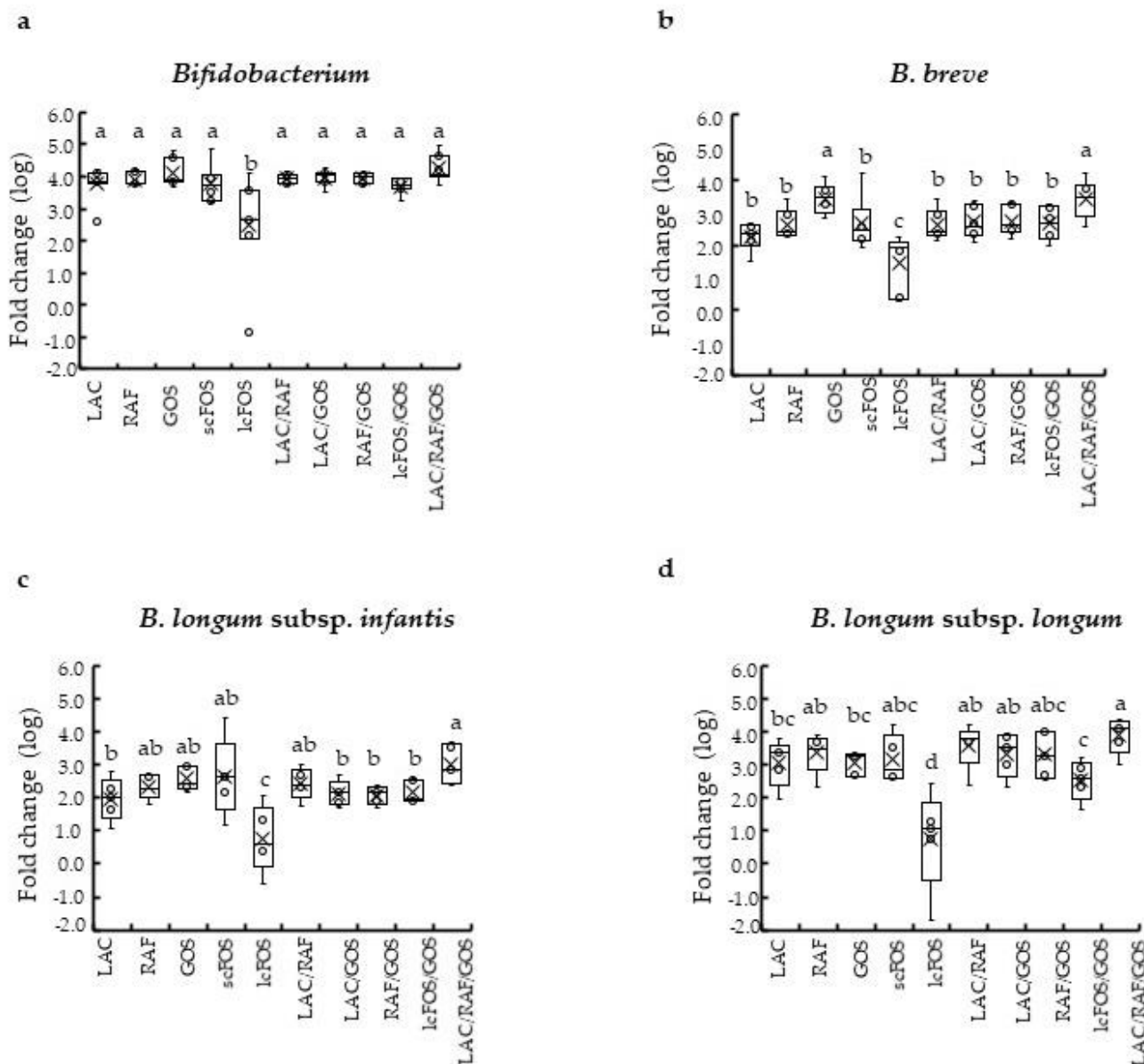
Supplemental Table S1. PCR primers used to detect the bacterial species

| Target | Primer | Sequences (5'-3') | Annealing temperature | Reference |
|--|-----------|------------------------|-----------------------|-----------|
| Total bacteria | Eub338F | ACTCCTACG GGAGGCAGCAG | 60 °C | [34] |
| | Eub518R | ATTACCGCG GCTGCTGG | | |
| <i>Bifidobacterium</i> | g-Bifid-F | CTCCTGGAAACGGGTGG | 55 °C | [35] |
| | g-Bifid-R | GGTGTTCTTCCCGATATCTACA | | |
| <i>Bifidobacterium bifidum</i> | BiBIF-1 | CCACATGATCGCATGTGATTG | 55 °C | [36] |
| | BiBIF-2 | CCGAAGGCTTGCTCCCAAA | | |
| <i>Bifidobacterium breve</i> | BiBRE-1 | CCGGATGCTCCATCACAC | 55 °C | [37] |
| | BiBRE-2 | ACAAAGTGCCTTGCTCCCT | | |
| <i>Bifidobacterium longum</i> subsp. <i>longum</i> | BiLON-1 | TTCCAGTTGATCGCATGGTC | 55 °C | [37] |
| | BiLON-2 | GGGAAGCCGTATCTCTACGA | | |
| <i>Bifidobacterium longum</i> subsp. <i>infantis</i> | BiINF-1 | TTCCAGTTGATCGCATGGTC | 55 °C | [37] |
| | BiINF-2 | GGAAACCCCATCTCTGGGAT | | |



Supplemental Figure S1.

Analysis of the cell number of total bacteria. Log-fold changes in the cell number of total bacteria from 0 h to 24 h. Data are expressed as means (n=7) with SD. Different letters indicate significant differences ($P < 0.05$)



Supplemental Figure S2.

Analysis of the cell numbers of *Bifidobacterium* and each human-residential bifidobacteria (HRB) species. Log-fold changes in the cell numbers of targeted bifidobacteria from 0 h to 24 h. a: *Bifidobacterium*, b: *Bifidobacterium breve*, c: *Bifidobacterium longum subsp. infantis*, d: *Bifidobacterium longum subsp. longum*. Data are expressed as means (n=7) with SD. Different letters indicate significant differences ($P < 0.05$).