Supplementary Table3. Mean relative abundance of the 10 most abundant phyla in Tianjin Zoo and Qilihai Wetland

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| **Sample group** | **Top ten abundant phyla (%)** |
| Tianjin Zoo (Z group) | Firmicutes(67.89) |
|  | Bacteroidota(28.43) |
|  | Actinobacteriota(0.85) |
|  | Verrucomicrobiota(0.78) |
|  | Patescibacteria(0.71) |
|  | Spirochaetota(0.69) |
|  | Proteobacteria(0.18) |
|  | Cyanobacteria(0.18) |
|  | Fibrobacterota(0.12) |
|  | Desulfobacterota(0.11) |
| Qilihai Wetland (S group) | Firmicutes(68.02) |
|  | Proteobacteria(17.74) |
|  | Actinobacteriota(10.09) |
|  | Bacteroidota(3.47) |
|  | Cyanobacteria(0.27) |
|  | Patescibacteria(0.20) |
|  | Verrucomicrobiota(0.09) |
|  | Fibrobacterota(0.07) |
|  | Bacteria(0.01) |
|  | Spirochaetota(0.01) |