Supplementary Table4. Mean relative abundance of the 10 most abundant gerna in Tianjin Zoo and Qilihai Wetland

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| **Sample group** | **Top ten abundant gerna (%)** |
| Tianjin Zoo (Z group) | *UCG-005*(13.05) |
|  | *Rikenellaceae\_RC9\_gut\_group*(8.94) |
|  | *Christensenellaceae\_R-7\_group*(8.37) |
|  | *norank\_f\_\_UCG-010*(4.64) |
|  | *Monoglobus*(4.20) |
|  | *norank\_f\_\_Eubacterium\_coprostanoligenes\_group*(3.50) |
|  | *unclassified\_f\_\_Peptostreptococcaceae*(3.22) |
|  | *Romboutsia*(3.20) |
|  | *Bacteroides*(3.12) |
|  | *Alistipes*(2.69) |
| Qilihai Wetland (S group) | *Psychrobacillus*(26.53) |
|  | *Pseudomonas*(11.33) |
|  | *UCG-005*(7.98) |
|  | *Arthrobacter*(6.22) |
|  | *Paenisporosarcina*(4.58) |
|  | *Acinetobacter*(3.71) |
|  | *Sporosarcina*(3.42) |
|  | *norank\_f\_\_UCG-010*(3.04) |
|  | *norank\_f\_\_Eubacterium\_coprostanoligenes\_group*(2.80) |
|  | *Christensenellaceae\_R-7\_group*(2.77) |