**Table 3 | Permutation Multivariate Analysis of Variance (PERMANOVA) results for gut microbiota composition between different populations based on bray-Curtis distance.** Bold indicates significant differences in the compared groups.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **group-pair** | **F.Model** | **R2** | **Pr (>F)** |
| **Same site, heterospecific** | S1.Ap.a-S1.Ts.t | 3.0755 | 0.1532(0.8468) | **0.007** |
|  | S2.Ap.a-S2.Ra.n | 2.6805 | 0.12364(0.87636) | **0.02** |
|  | S3.Ap.a-S3.Cr.b | 0.90782 | 0.04801(0.95199) | 0.454 |
|  | S4.Ap.a-S4.Cr.b | 6.1005 | 0.27603(0.72397) | **0.001** |
|  | S5.Ap.a-S5.Cr.b | 1.5191 | 0.13188(0.86812) | 0.136 |
|  | S5.Ap.a-S5.Ra.n | 3.6764 | 0.29002(0.70998) | **0.005** |
|  | S5.Ra.n-S5.Cr.b | 3.5229 | 0.41334(0.58666) | **0.023** |
| **Different site, conspecific** | S1.Ap.a-S2.Ap.a | 2.2012 | 0.09915(0.90085) | **0.035** |
|  | S1.Ap.a-S3.Ap.a | 5.8263 | 0.20212(0.79788) | **0.001** |
|  | S1.Ap.a-S4.Ap.a | 5.3174 | 0.22804(0.77196) | **0.001** |
|  | S1.Ap.a-S5.Ap.a | 2.972 | 0.15665(0.84335) | **0.003** |
|  | S2.Ap.a-S3.Ap.a | 4.2018 | 0.14389(0.85611) | **0.001** |
|  | S2.Ap.a-S4.Ap.a | 5.6334 | 0.21977(0.78023) | **0.001** |
|  | S2.Ap.a-S5.Ap.a | 3.3329 | 0.15623(0.84377) | **0.005** |
|  | S2.Ra.n-S5.Ra.n | 1.5217 | 0.13207(0.86793) | 0.138 |
|  | S3.Ap.a-S4.Ap.a | 8.3219 | 0.26569(0.73431) | **0.001** |
|  | S3.Ap.a-S5.Ap.a | 14.014 | 0.40024(0.59976) | **0.001** |
|  | S3.Cr.b-S4.Cr.b | 11.87 | 0.51903(0.48097) | **0.001** |
|  | S3.Cr.b-S5.Cr.b | 7.8036 | 0.52714(0.47286) | **0.005** |
|  | S4.Ap.a-S5.Ap.a | 15.909 | 0.49857(0.50143) | **0.001** |
|  | S5.Cr.b-S4.Cr.b | 26.571 | 0.72656(0.27344) | **0.003** |