**S1 Table.** **Diversity analysis of microbial community associated with different instars of *C. capitata*.**

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| --- | --- | --- | --- |
| **Stage** | **Shannon** | **Chao1** | **Phylogenetic diversity** |
| *1st instar larva* | 1.84±0.07 (c) | 580.6±23.4 (a) | 9.46±0.26 (b) |
| *3rd instar larva* | 2.63±0.14 (a) | 526.9±41.2 (a) | 9.72±0.71 (ab) |
| *Pupa* | 2.62±0.06 (a) | 711.7±21.1 (b) | 11.61±0.41 (a) |
| *Adult* | 2.21±0.09 (b) | 557.3±32.7 (b) | 9.88±0.56 (ab) |
| *F* (df 3, 56) | 14.69 | 7.04 | 3.6 |
| *P* | \*\*\* | \*\*\* | \* |

For each instar and host plant, diversity indices are reported as mean ± SE, together with the result of the Tukey’s MCT (different letters on the same row, indicate differences for *P*<0.05).

\*\*\* *P*<0.001; \*\* *P*<0.01; \* *P*<0.05