Supplementary Table S1. The number of OTUs, Shannon diversity and total read count of *Haemaphysalis longicornis* microbiome. Nymph (N1-N11), female adult (F1-F3), and male adult (M1-M4) tick samples.

|            | N1  | N2  | N3  | N4  | N5  | N6  | N7  | N8  | N9  | N10 | N11 | F1  | F2  | F3  | M1  | M2  | M3  | M4  |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| No. of OTUs| 69  | 151 | 113 | 100 | 93  | 131 | 162 | 113 | 126 | 481 | 228 | 86  | 105 | 79  | 155 | 96  | 79  | 193 |
| Shannon diversity | 0.95 | 1.505 | 1.24 | 1.238 | 0.495 | 0.741 | 1.653 | 2.048 | 2.305 | 2.921 | 0.376 | 1.246 | 0.874 | 0.616 | 0.586 | 0.471 | 1.435 |
| Total read count  | 36,651 | 59,712 | 24,483 | 19,921 | 60,124 | 63,270 | 63,774 | 64,909 | 60,756 | 56,483 | 54,675 | 60,375 | 63,046 | 32,011 | 31,300 | 49,844 | 29,333 |