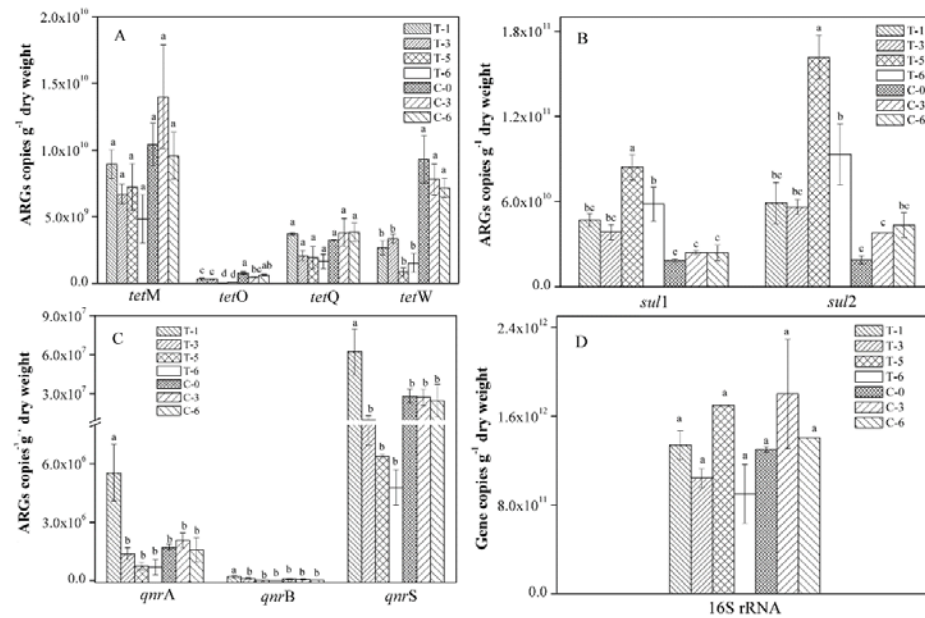# Supplementary Information

Figure S1 The gene copies of *A) tet* genes, *B) sul* genes, *C) qnr* genes and *D)* 16S rRNA normalized to dry weight of samples. The samples were collected on day 0 (C-0), day 3 (C-3), and day 6 (C-6) random stockpiling of raw fresh manure as controls and on day 1 (T-1), day 3 (T-3), day 5 (T-5), and day 6 (T-6) housefly larvae (*Musca domestica*) vermicomposting of raw fresh manure as the treatment. Error bars are standard deviations (n = 3). Different letters listed above error bars indicate significant ($p < 0.05$) differences in gene copies of ARGs and 16S rRNA between different vermicomposting days and controls using S-N-K test for multiple comparison, following a significant One-way repeated-measures ANOVA.

Table S1 The selected environmental factors measured in samples collected in unprocessed fresh manure (C-0), in manure under traditional composting without larvae on day 3 (C-3), and day 6 (C-6), and in manure under larvae-treated vermicomposting on day 1 (T-1), day 3 (T-3), day 5 (T-5), and day 6 (T-6). Standard deviations of the mean are presented in brackets (n = 3). Various colors per row represent significant differences in these parameters at 0.05 levels among different sampling times.

	T-1	T-3	T-5	T-6	C-0	C-3	C-6
Organic matter (%)	90.8 (0.5)	89.1 (0.7)	82.38 (1.1)	84.2 (0.5)	91.1 (1.4)	90.3 (1.1)	89.4 (1.0)
Total nitrogen (%)	3.35 (0.06)	3.25 (0.08)	2.98 (0.03)	2.60 (0.03)	3.48 (0.07)	3.77 (0.29)	3.61 (0.14)
pH	6.51 (0.08)	8.34 (0.00)	8.68 (0.03)	8.46 (0.04)	6.68 (0.03)	6.73 (0.06)	6.73 (0.04)
Temperature (^{o}C)	31.7 (0.6)	36.7 (1.5)	47.7 (0.6)	33.0 (2.6)	28.3 (0.6)	29.0 (1.0)	30.6 (0.1)
Water content (%)	71.7 (0.8)	71.7 (2.5)	64.6 (1.6)	65.9 (1.8)	81.4 (2.2)	79.4 (2.7)	79.6 (2.4)

Low   High