



Fig. S8. The expression of lipid metabolic genes and mitochondria function. The relative expression of genes involve into fatty acids synthesis (A) and lipolysis (B and C) in N2 worms under iron overload condition. (D) The relative expression of *sod-1*, *sod-2*, *sod-3* and *sod-4* in N2 worms under FAC treatments. (E) Dihydroethidium (DHE) staining of N2 worms under FAC treatments. Represented animals, anterior is on left, and posterior is on right. Scale bar represents 20 μ m. Exposure time: 150 ms. (F) Relative oxygen consumption in N2, *sgk-1(ok538)*, *cyp-23A1(gk253)*, *sgk-1(ok538);cyp-23A1(gk253)* worms. Data are presented as mean \pm SEM of 3 biological repeats. Significant difference between FAC 5.0 mg/ml and FAC 0 mg/ml in same worm strain, *: $P < 0.05$, **: $P < 0.01$, ***: $P < 0.001$. n.s, no significance.

