

Figure S1. Transcription profile of (A) *GPX*, (B) *IL-10*, and (C) *CAT* genes in the gill tissues of Nile tilapia juveniles after exposure to different concentrations of SiO₂NPs (0.0, 20, 40, and 100 mg/L) for 3 weeks. Values are expressed as mean \pm SEM ($n = 9$). NS indicates non-significant differences.

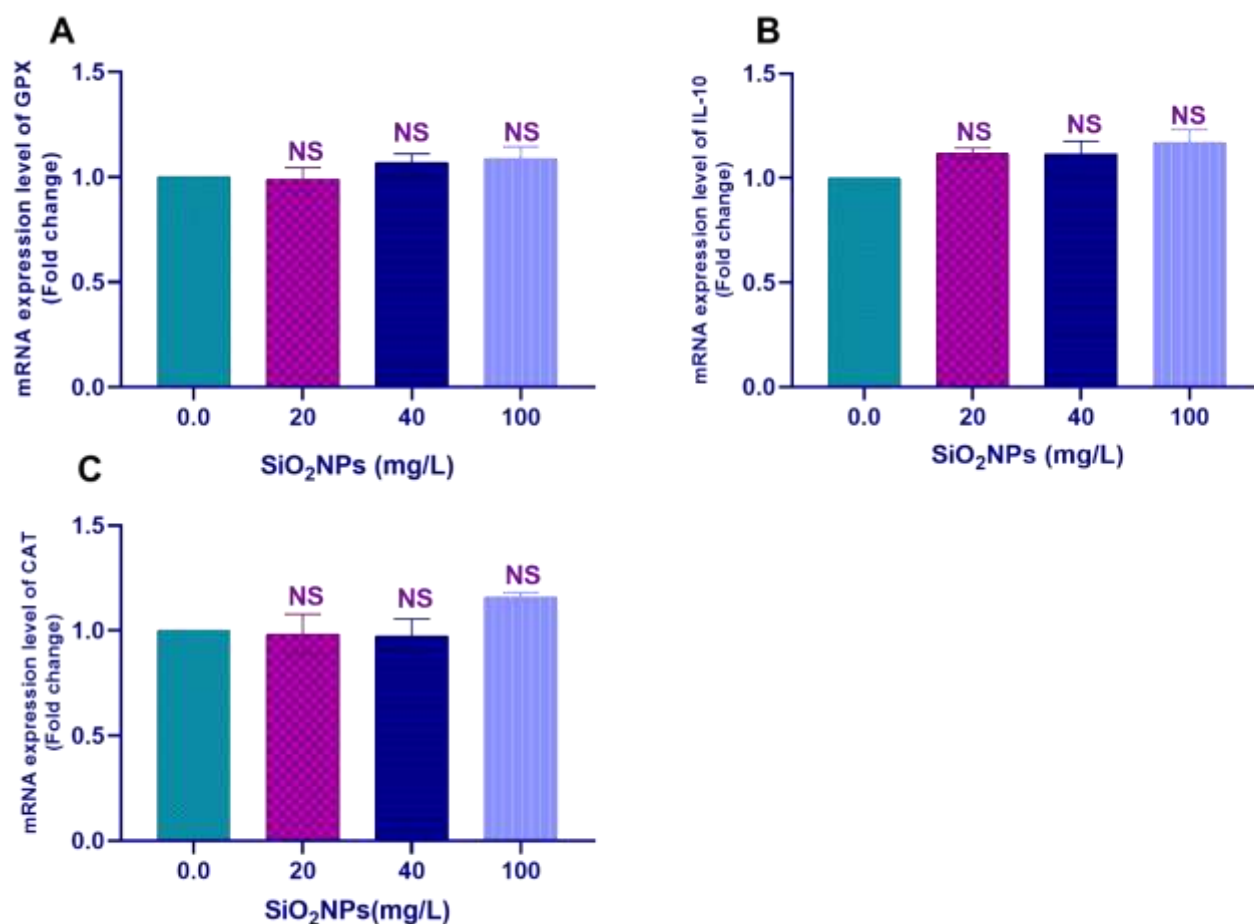


Figure S2 Transcription profile of (A) *GPX*, (B) *IL-10*, and (C) *CAT* genes in liver of Nile tilapia juveniles after exposure to different concentrations of SiO₂NPs (0.0, 20, 40, and 100 mg/L) for 3 weeks. Values are expressed as mean \pm SEM (n = 9). NS indicates non-significant differences.