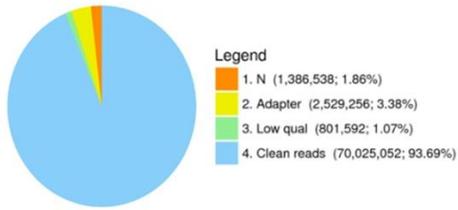
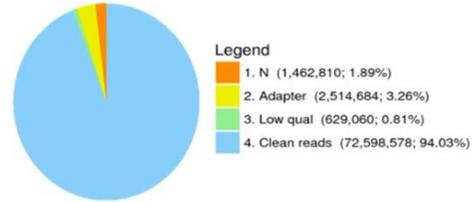


Supplementary Figure 1 Representative electropherograms by bioanalyser. A: RNA samples for untreated HepG2 cells; B: RNA samples for *Catharanthus roseus*-silver nanoparticles treated HepG2 cells.

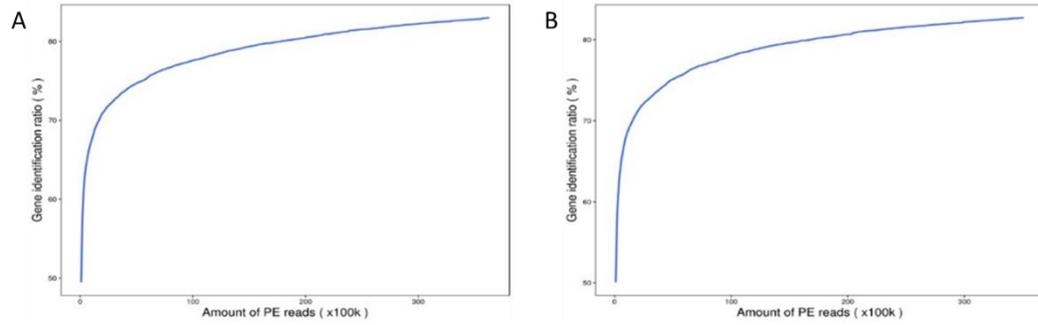
A



B

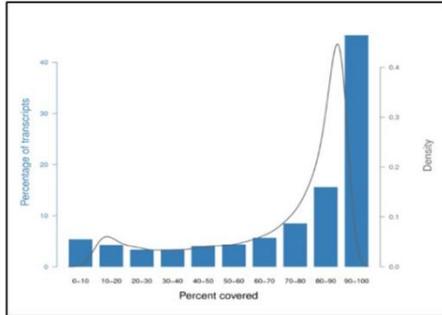


Supplementary Figure 2 Filter composition of raw data. A: RNA samples for untreated HepG2 cells; B: RNA samples for *Catharanthus roseus*-silver nanoparticles treated HepG2 cells.

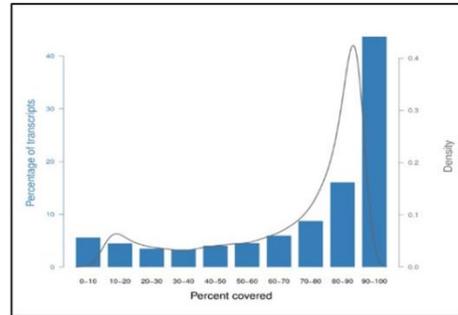


Supplementary Figure 3 Saturation analysis. A: Untreated HepG2 cells; B: *Catharanthus roseus*-silver nanoparticles treated HepG2 cells.

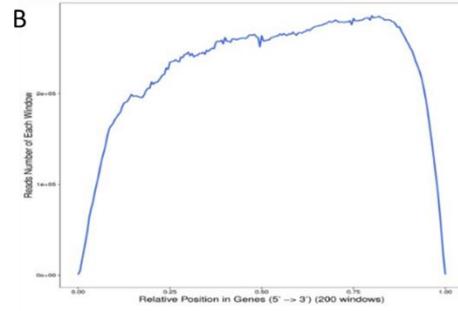
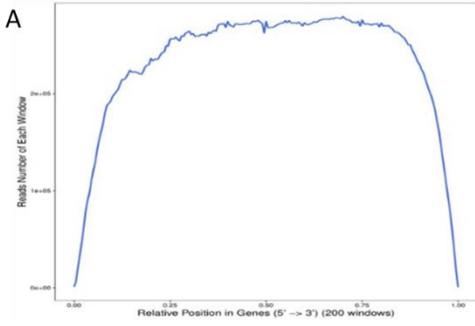
A



B



Supplementary Figure 4 Read coverage on transcripts. The X-axis represents the read coverage. Left Y-axis represents the percentage of transcripts. The right Y-axis represents the density of transcripts. A: Untreated HepG2 cells; B: *Catharanthus roseus*-silver nanoparticles treated HepG2 cells.



Supplementary Figure 5 Read coverage on transcripts. The X-axis represents the position along with transcripts. Left Y-axis represents the number of reads. A: Untreated HepG2 cells; B: *Catharanthus roseus*-silver nanoparticles treated HepG2 cells.