[Supplementary Information]

## Green synthesis of phytochemical-stabilized Au nanoparticles under ambient conditions and their biocompatibility and antioxidative activity

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Supplementary Figure 1. Three-dimensional ball-and-stick models of the organic molecules and Au nanoparticle surface: (A) Au surface (111); (B) gallic acid; (C) gallic acid-isoflavone; (D) protocatechuic acid-isoflavone. Color codes: Au atom, yellow; carbon atom, gray; hydrogen atom, white; and oxygen atom, red. The dotted lines in the structure are attributed to the resonance state, which is simulated by the amorphous cell module.





Supplementary Figure 2. SEM images of L-929 cells exposed to (A) GI-Au NPs and (B) PI-Au NPs (25 and 50  $\mu$ g/mL) for one day.