



Fig.S1. Estimation of Zn ion content in skin tissue. Mice were topically exposed to ZnO-NPs (<50 nm, <100 nm) of 5% and 10%, bulk (<5 µm) of 10% dose alone or followed by UVB irradiation as described in Materials and Methods. Treated mice were sacrificed at 6, 24 and 48 h. Skin samples were predigested in 1-3 ml of ultrapure nitric acid and 0.1–0.3ml of perchloric acid and heated at 160°C until the solutions become colorless and clear. The solutions were finally diluted to 5 ml with ultrapure water and the total Zn content was analyzed as described in Materials and Methods. Data represent in ng/mg of skin sample.