Supplementary Information (SI) for Nanoscale Horizons.

Support data for figure 5f

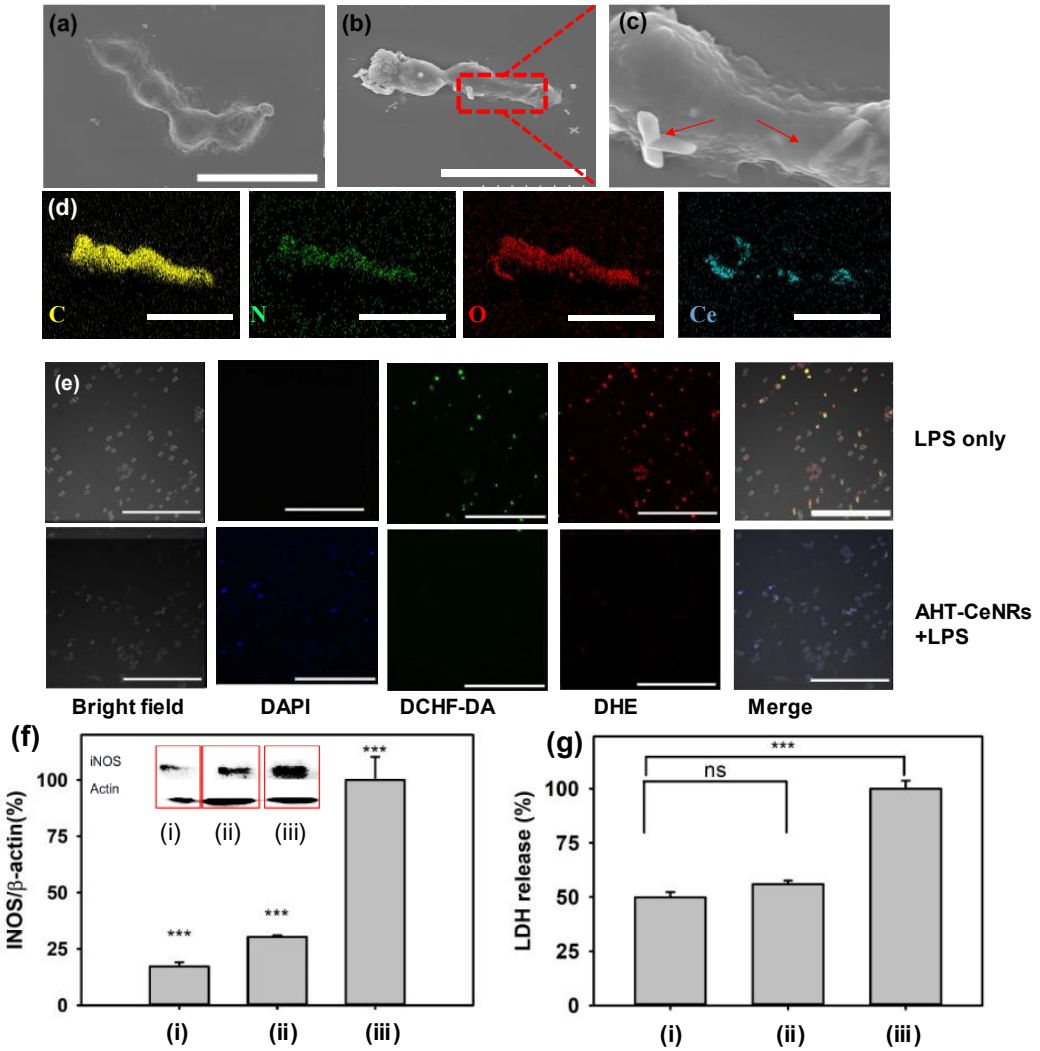

Figure 5. **SEM image of HaCaT cells** (A) non treated, treated with AHT at (B) low and (C) high resolution (red arrows: AHT-CeNRs) scale bar: 30 µm and (D) EDS mapping of cell treated with AHT-CeNRs, scale bar: 20 µm. (E) HaCaT cells were incubated with AHT-CeNRs (0.1 mg/mL) in 6 hours and then stimulators (LPS, 5 µg/mL) were added in 1h followed by adding 2'-7'dichlorofluorescin diacetate (DCHF-DA), dihydroethidium (DHE) as probe for radical oxygen species and DAPI as DNA-specific probe. Scale bar: 100 µm, (F) in vitro Western blot analysis for iNOS, (G) in vitro Lactate dehydrogenase (LDH) assay. ** $P < 0.001$; ns: not significant, herein (a): only cells. (b): cells treated with AHT-CeNRs and LPS, and (c) cells treated with LPS)

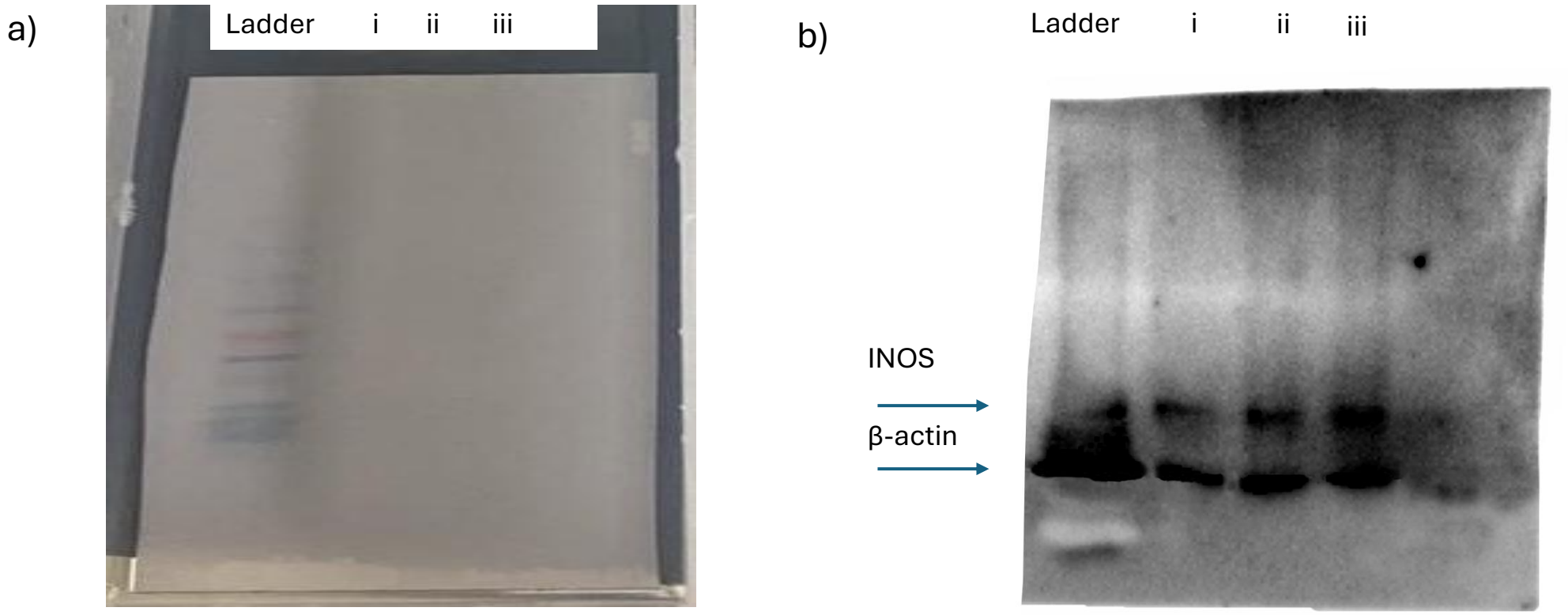

Fig. (a) Real image of nitrocellulose membrane after protein transfer step and (b) Chemiluminescence image of the membrane following immunoblotting with INOS and β-actin-specific antibodies and detection by ECL staining