

FSE-15016-SZY- Supplementary materials

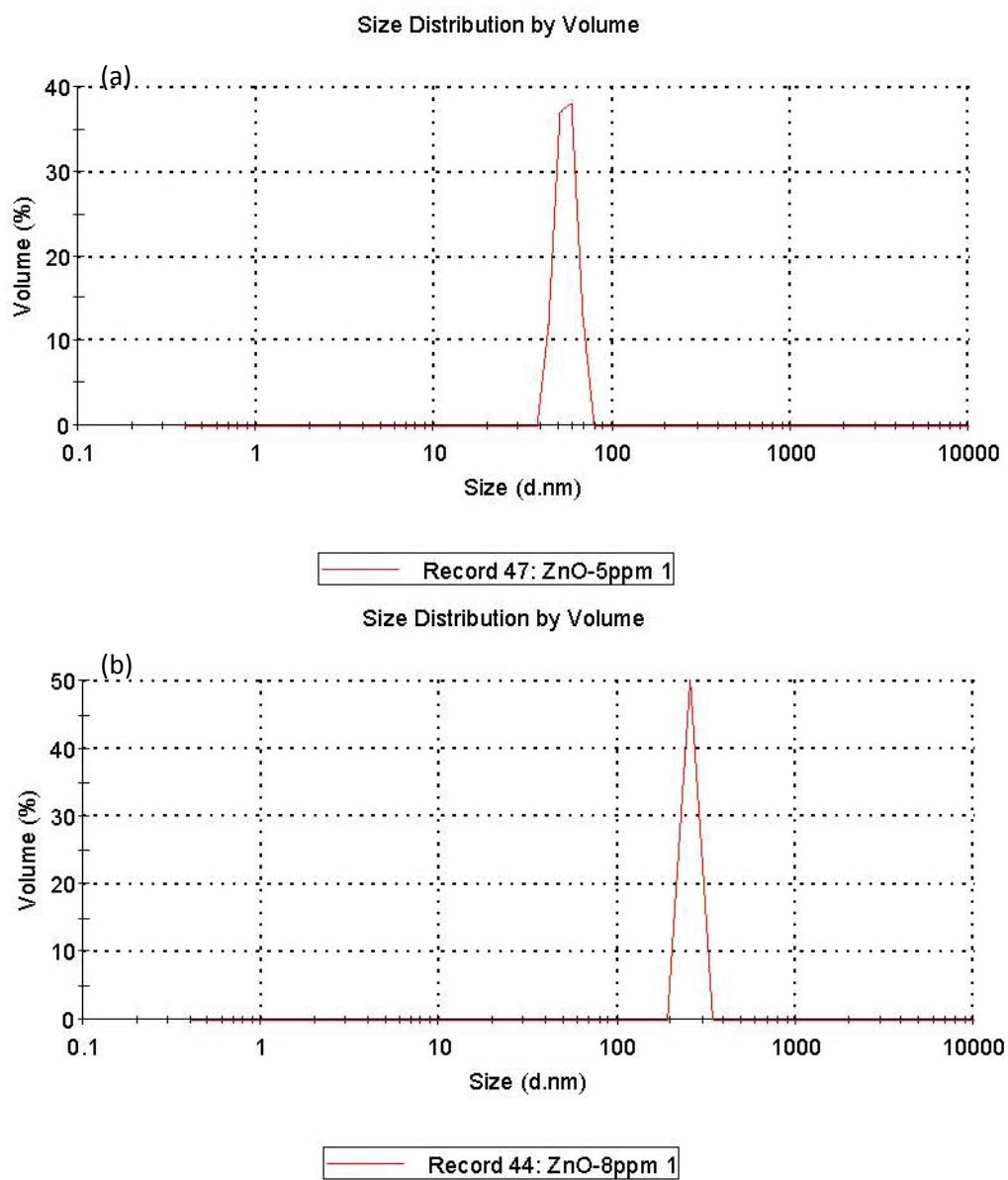
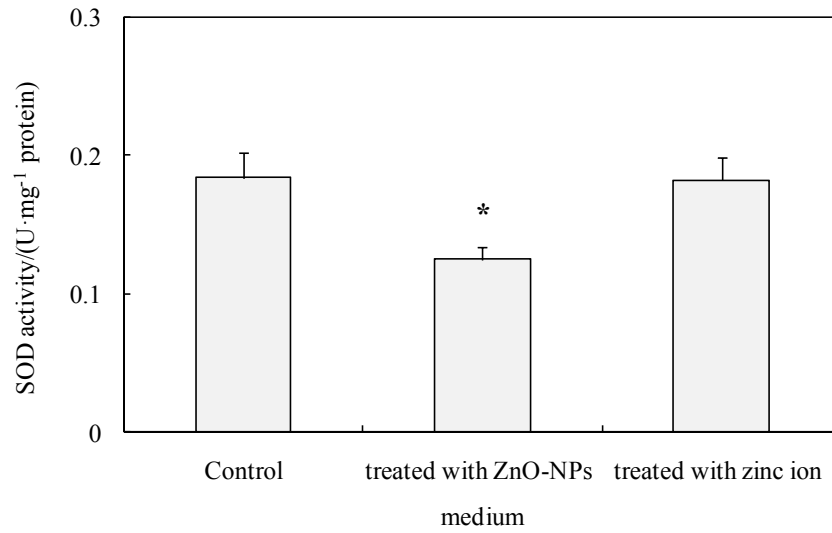
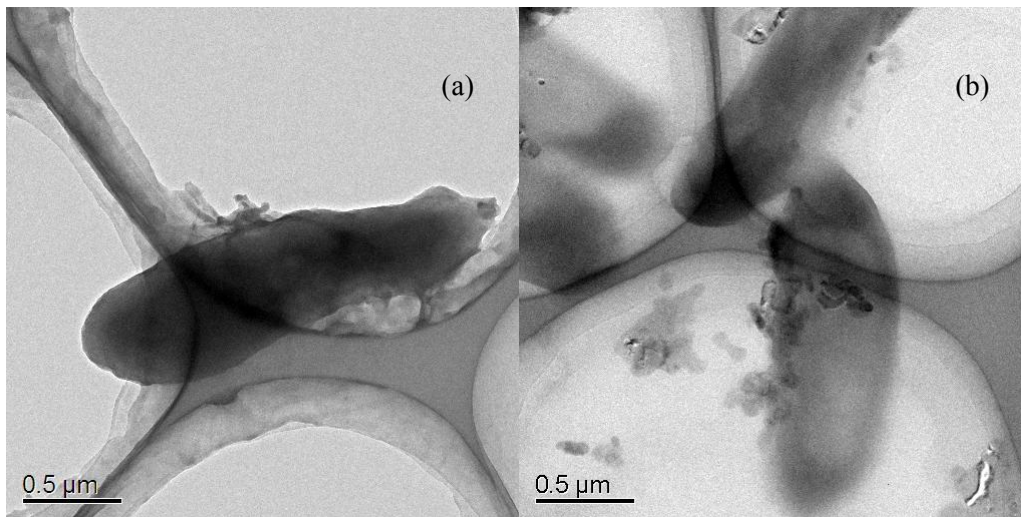


Fig.S1 Distribution of hydrodynamic diameter of the studied ZnO-NPs under different concentrations  
(a)  $5 \text{ mg}\cdot\text{L}^{-1}$  (b)  $8 \text{ mg}\cdot\text{L}^{-1}$



**Fig. S2** Comparison of SOD activity of the bacteria cultivated under different treatments  
 Notes: \* Indicates the SOD activity between control and medium treated with ZnO-NPs is significant at 0.05 level; zinc ion refers to Zn<sup>2+</sup> in this figure



**Fig.S3** TEM images of the bacteria exposed to the studied ZnO-NPs and in the control  
 (a) control; (b) treated with ZnO-NPs