

Aerosol Inhalation Exposure Study of Respiratory Toxicity Induced by 20nm Anatase Titanium Dioxide Nanoparticles

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Results and Discussion

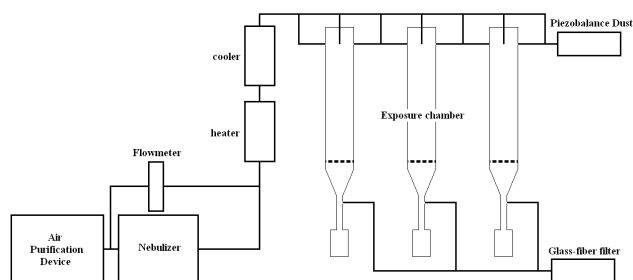


Fig. S1 The aerosol inhalation exposure system.

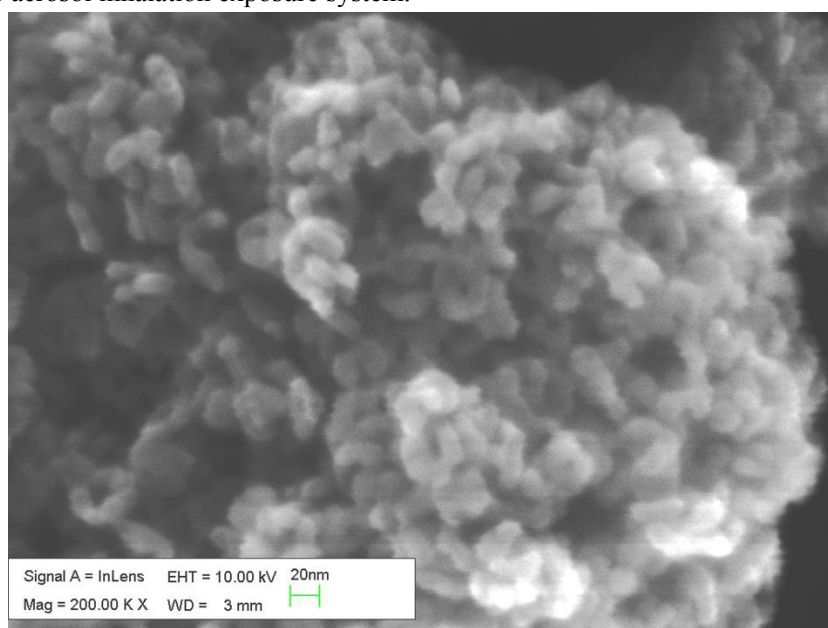


Fig. S2 The physicochemical characteristics of TiO₂ nanoparticles with a primary particle size of 20 nm, sclar bar = 20 nm (green line).

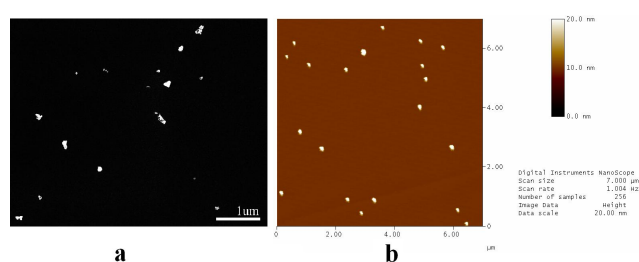


Fig. S3 The aerosol size of TiO₂ nanoparticles suspended in millipore ultrapure water. (a) The SEM image of TiO₂ nanoparticle aerosol; (b) The AFM image of TiO₂ nanoparticle aerosol.

Tab. S1 Results of the concentration of total protein, ACP and AKP in BALF (average ± stdev) after mice exposed to TiO₂ nanoparticles (n=5).

	Control group	Inhalation exposure group
Total Protein (g/L)	0.19 ± 0.04	0.27 ± 0.04
ACP (U/gprot)	18.80 ± 5.24	18.13 ± 7.66
AKP (U/gprot)	6.63 ± 0.77	7.32 ± 0.40

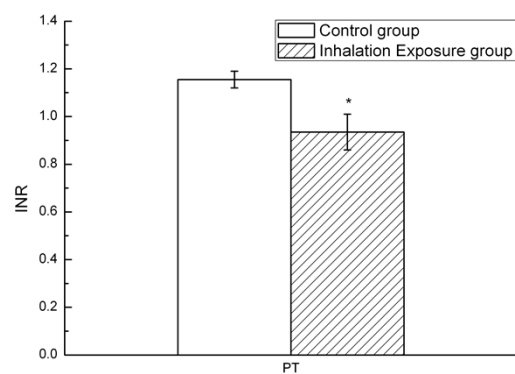


Fig. S4 Results of PT after mice exposed to TiO₂ nanoparticles.