

Supplementary Information

Grafting Resveratrol onto Mesoporous Silica Nanoparticles towards Efficient Sustainable Immunoregulation and Insulin Resistance Alleviation for Diabetic Periodontitis Therapy

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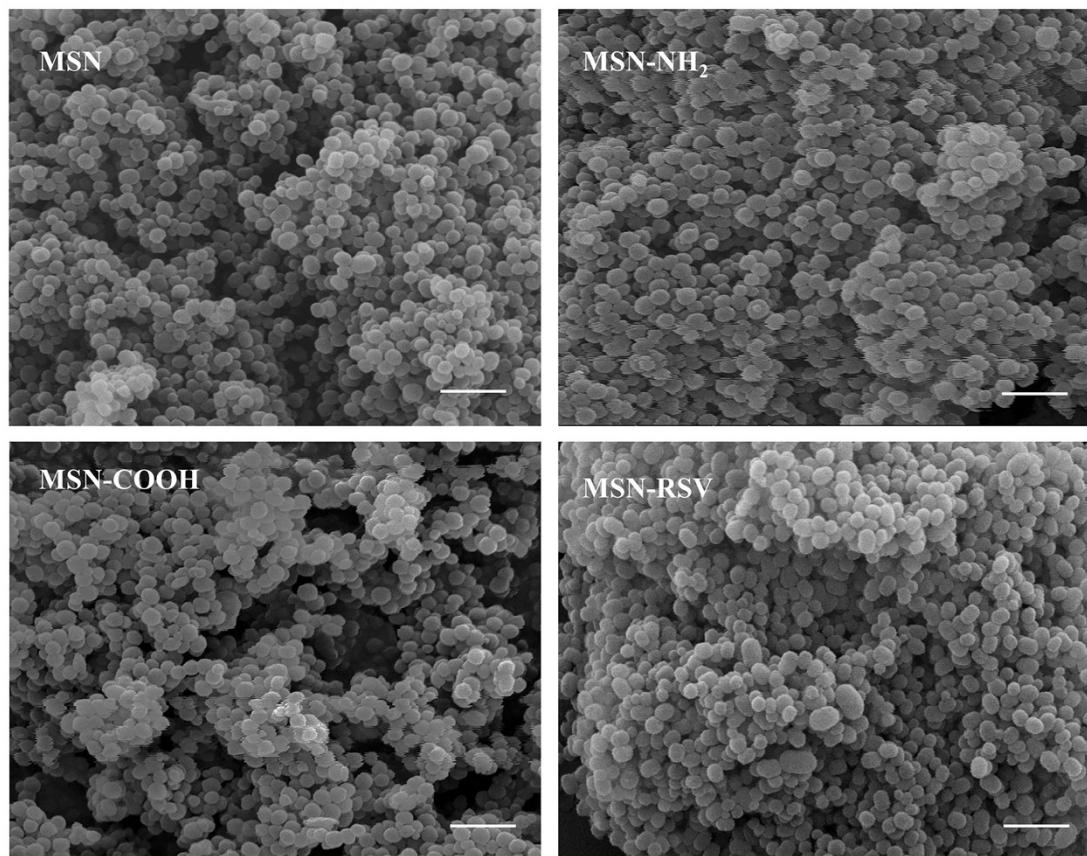


Fig. S1 SEM images of MSN, MSN-NH₂, MSN-COOH, and MSN-RSV. Scale bar is 500 nm.

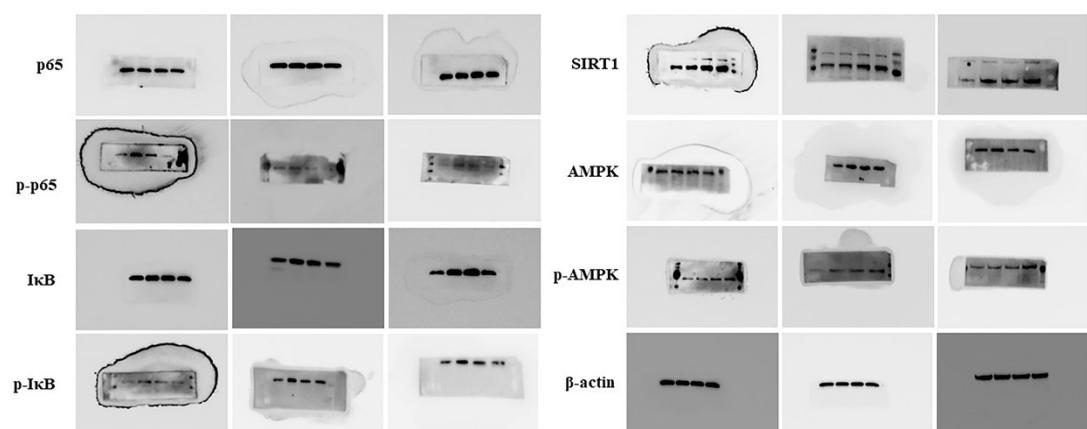


Fig. S2 Raw images of panel p65, p-p65, IκB, p-IκB, SIRT1, AMPK and p-AMPK in three replicate experiments: control, LPS, MSN-RSV(10 μ M), MSN-RSV(40 μ M).

Table S1. Hydrodynamic diameter and PDI of MSN, MSN-NH₂, MSN-COOH, and MSN-RSV. (mean ± SD, n = 3)

	Hydrodynamic Diameter (nm)	Polydispersity index (PDI)
MSN	200.66 ± 3.15	0.222 ± 0.023
MSN-NH ₂	241 ± 3.35	0.439 ± 0.039
MSN-COOH	211 ± 6.16	0.174 ± 0.008
MSN-RSV	231 ± 5.54	0.372 ± 0.018