

Supporting Information:

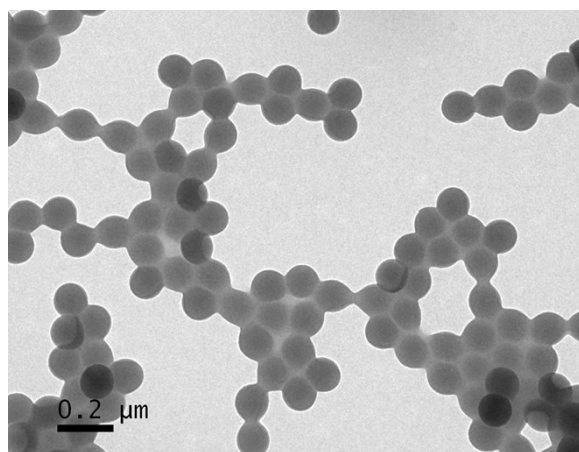


Fig. S1 TEM image of nanopolystyrene particles (100 nm) in K medium.

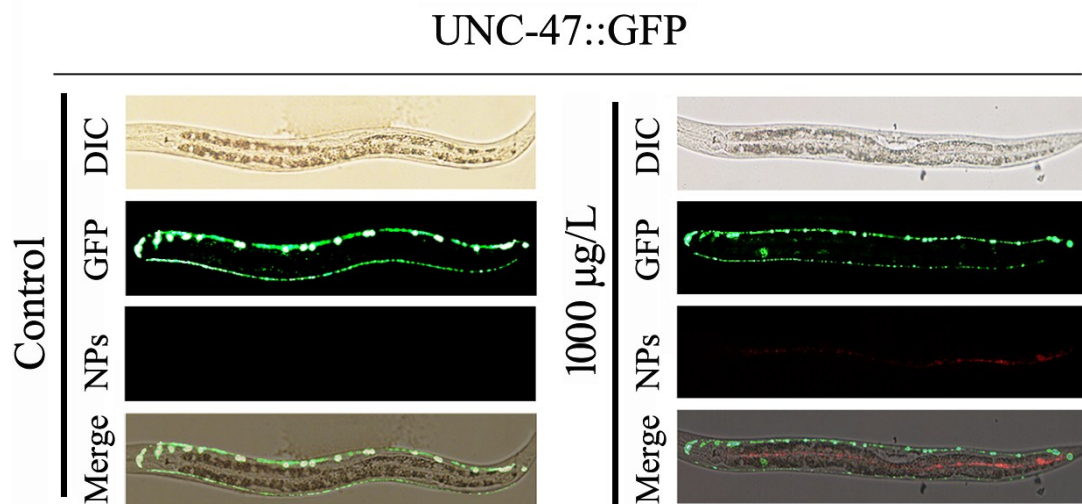


Fig. S2 Nanopolystyrene particles (red signals) were not accumulated in the D-type GABAergic motor neurons (green signals) in nematodes. Prolonged exposure was from L1-larvae to adult day-1.

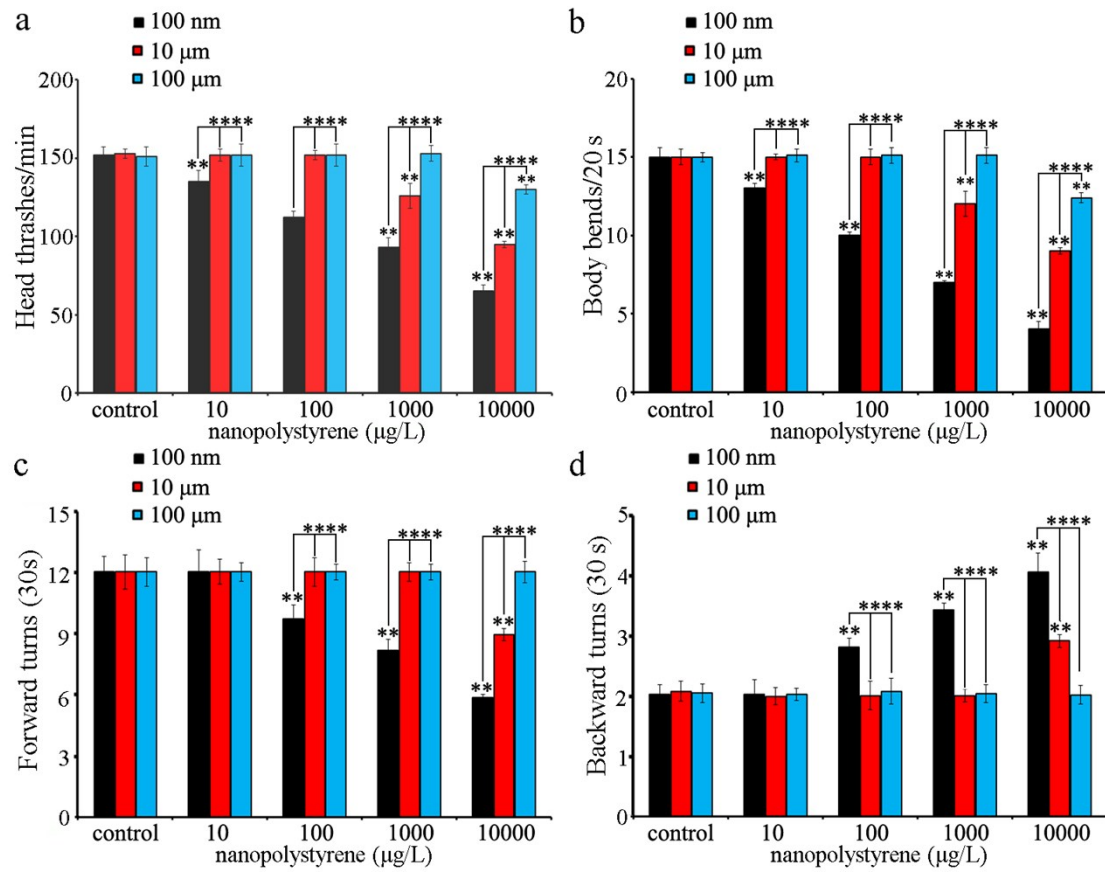


Fig. S3. Comparison of neurotoxicity of different sizes of polystyrene on head thrash (a), body bend (b), forward movement frequency (c), and backward movement frequency (d). Prolonged exposure was from L1-larvae to adult day-1. Bars represent means $\pm$ SD. ** $P < 0.01$ vs control (if not specially indicated).

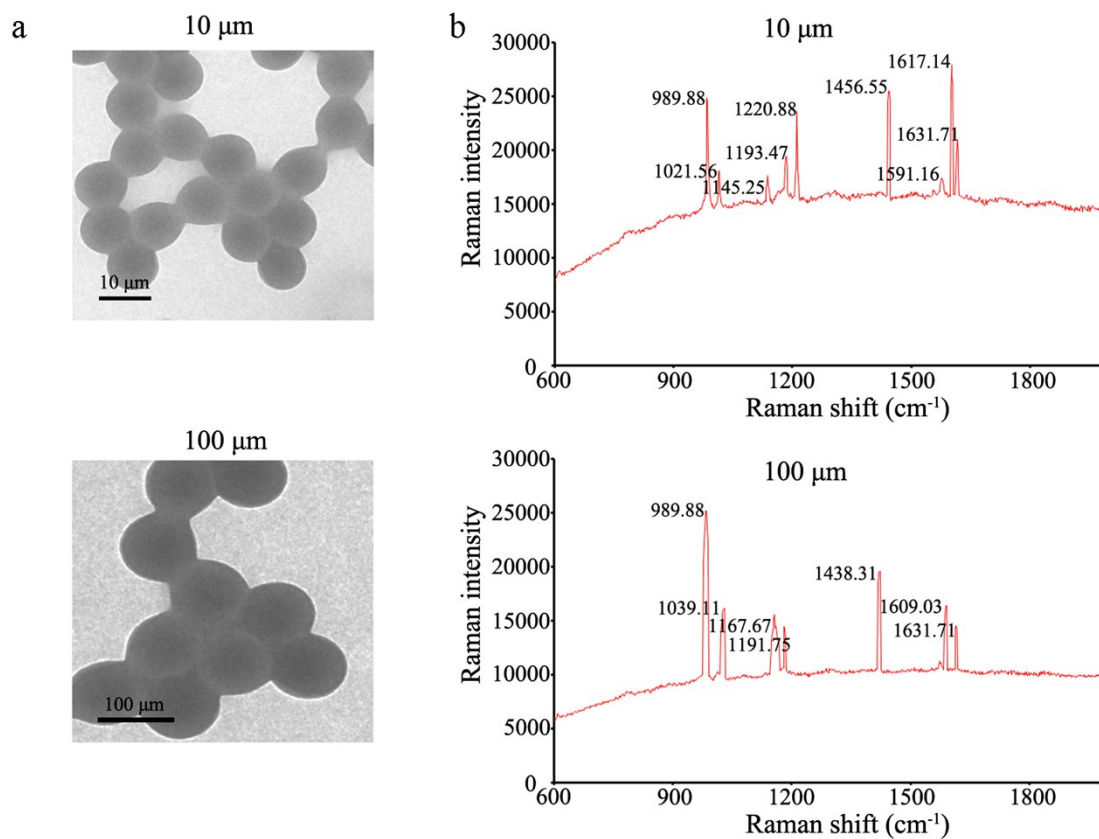


Fig. S4 Properties of polystyrene particles (10 and 100 μm). (a) TEM image of polystyrene particles (10 and 100 μm) in K medium. (b) Raman spectrum of polystyrene particles (10 and 100 μm).

Table S1 Primer information for qRT-PCR

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>lgg-1</i>	CCGCAGAAAGTACCCAGACC	CTGGACGAAGTTGGATGCGT
<i>lgg-2</i>	GGAAGAAATCCGCAGCCAAC	GCCATCTGGATCACGCTCTT
<i>bec-1</i>	GACGACCCAACGAAGCCATA	ATCGACGTTGTCGGATGGTT
<i>atg-18</i>	ATGGCTGCTACATCAGACGG	TGGCTCATTGGTGGGAAGTC
<i>tba-1</i>	TCAACACTGCCATCGCCGCC	TCCAAGCGAGACCAGGCTTCAG

Table S2 Primer information for DNA constructions

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>Phlh-30</i>	ATACTGCAGATGAATGCTCTTATT CG	CGCTCTAGAGTGTCTAAACTTTCTG ATC
<i>hlh-30</i>	ATAGGTACCATGGCCGATGACGAC	ATACCATGGCGAAAAGTCCATGTG