

Supplementary Information

Table S1. Meteorological and gaseous data measured by the EPA Guting air quality monitoring stations during the study period

Meteorological and gaseous data (unit)	Mean \pm SD (Min~Max)
Temperature (°C)	20.2 \pm 5.0 (5.4~31.1)
Relative humidity (%)	80.8 \pm 9.6 (54.9~96.1)
NO ₂ (ppb)	21.6 \pm 6.3 (10.0~50.0)
SO ₂ (ppb)	2.6 \pm 1.1 (0.9~8.3)
O ₃ (ppb)	26.3 \pm 10.7 (2.0~84.3)

NO₂: nitrogen dioxides; SO₂: sulfur dioxide; O₃: ozone.

Supplementary Information

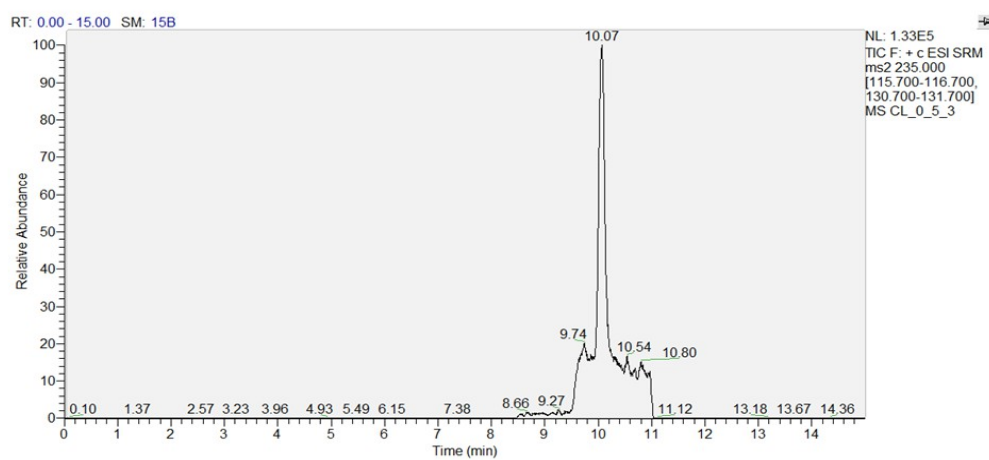


Figure S1. Spectrums of MDA analysed by LC-MS/MS.

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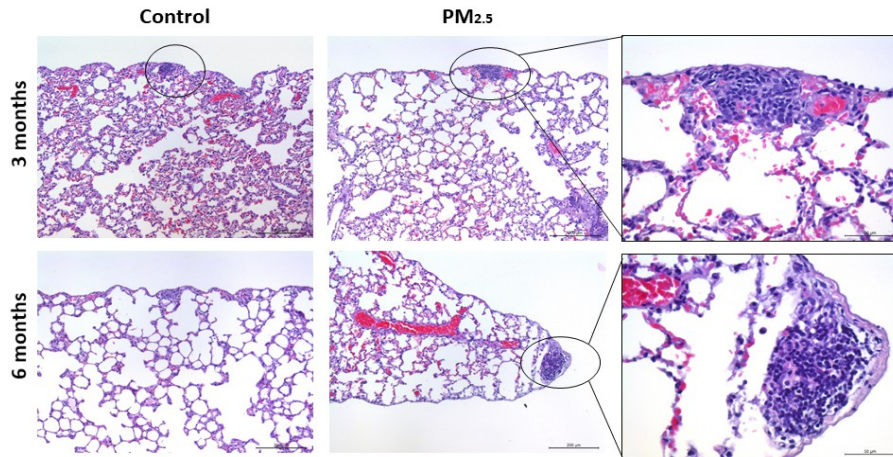


Figure S2. Effects (3- and 6-months exposure) of PM_{2.5} on the inflammatory infiltration of lungs in SH rats. Subpleural alveolar infiltration of mononuclear cells was observed in the lungs after 3- and 6-months exposure of HEPA and/or PM_{2.5}.

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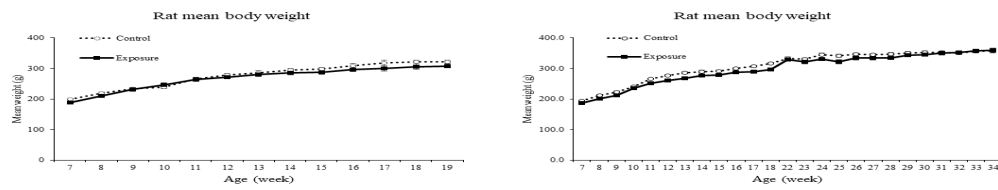


Figure S3. Alteration in body weight of SH rats between HEPA (control) and PM_{2.5} (exposure) groups after 6-months exposure.

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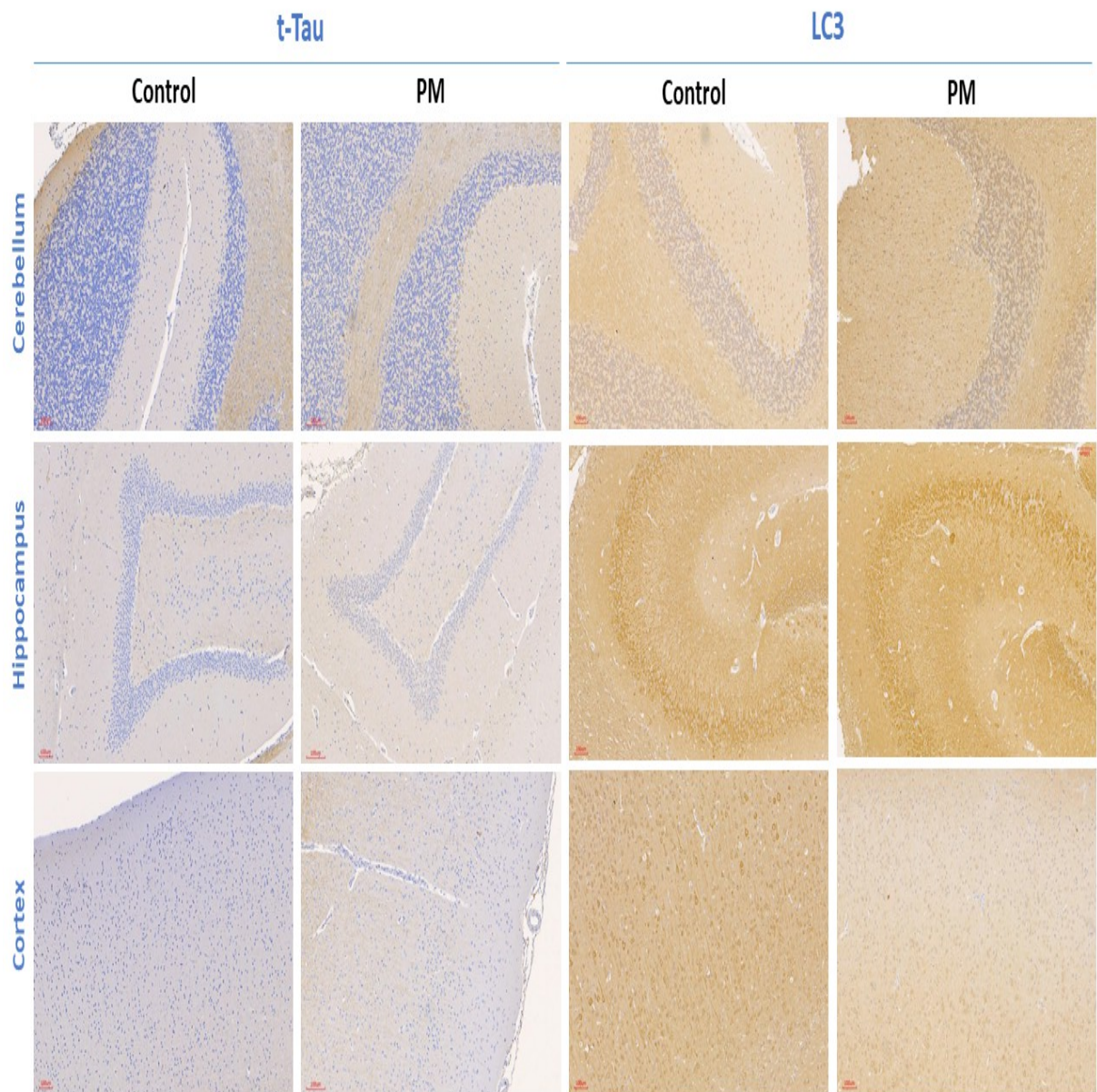


Figure S4. IHC images of total Tau (t-Tau) in the cerebellum, hippocampus, and cortex of SH rats after 6 months of exposure to HEPA (control) and PM_{2.5} (exposure). Scar bar is 50 μ m.

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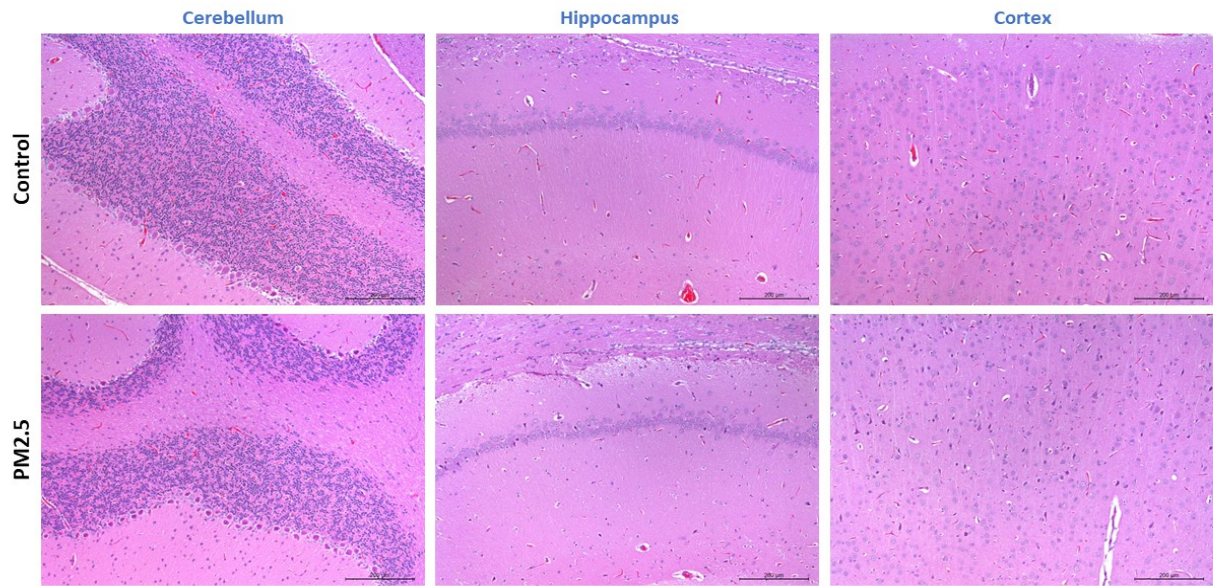


Figure S5. Chronic effects (6-months exposure) of PM_{2.5} on the histological changes of cerebellum, hippocampus, and cortex in SH rats. scale bar: 200 μm