

SUPPLEMENTARY TABLES

Supplementary Table 1. Components of PM_{2.5} (ng/m³).

Element	Ambient PM _{2.5}
Zinc	11.19 ± 3.71
Arsenic	0.96 ± 0.14
Lanthanum	0.02 ± 0.01
Barium	3.02 ± 0.68
Antimony	0.55 ± 0.24
Molybdenum	0.45 ± 0.23
Titanium	0.83 ± 0.25
Calcium	88.46 ± 12.51
Sulfur	1021.28 ± 346.71
Phosphorus	17.21 ± 2.55
Aluminum	23.44 ± 7.13
Magnesium	26.75 ± 3.96
Sodium	55.19 ± 11.47
Lead	2.91 ± 0.74
Copper	2.45 ± 0.74
Potassium	37.23 ± 8.87
Selenium	0.46 ± 0.04
Cerium	0.04 ± 0.01
Cadmium	0.51 ± 0.06
Strontium	0.36 ± 0.11
Rubidium	0.06 ± 0.01
Nitrogen	0.43 ± 0.51
Cobalt	0.12 ± 0.11
Iron	55.63 ± 13.96
Manganese	1.88 ± 0.63
Chromium	8.47 ± 1.15
Vanadium	0.31 ± 0.19

Supplementary Table 2. Primary and secondary antibodies used for western blot analysis.

Name	Catalog	Dilutions	Vendor
TGFβ1	ab93650	1:1000	Abcam
Phospho-NF-κB	ab86299	1:1000	Abcam
NF-κB	ab76311	1:1000	Abcam
IκBα	#4814	1:1000	Cell Signaling Technology
Phospho-IκBα	#2859	1:1000	Cell Signaling Technology
RIPK3	ab56164	1:1000	Abcam
HO1	ab13248	1:1000	Abcam
Nrf2	ab31163	1:1000	Abcam
GCLM	ab126704	1:1000	Abcam
α-SMA	ab32575	1:1000	Abcam
NDUFB8	ab110242	1:1000	Abcam
SDHB	ab14714	1:1000	Abcam
UQCRC1	#459140	1:1000	Invitrogen
MTCO1	ab14705	1:1000	Abcam
TIM23	ab230253	1:1000	Abcam
Phospho-Smad-2	#18338	1:1000	Abcam
Smad-2	#5339	1:1000	Abcam
Keap-1	ab150654	1:1000	Abcam
Phospho-Smad-3	#9523	1:1000	Cell Signaling Technology
Smad-3	#9520	1:1000	Cell Signaling Technology
Beclin1	ab210498	1:1000	Abcam
Vps34	ab124905	1:1000	Abcam
LC3B	ab192890	1:1000	Abcam
ATG5	ab108327	1:1000	Abcam
Rabbit IgG	ab6721	1:4000	Abcam
Mouse IgG	ab6728	1:4000	Abcam
GAPDH	ab8245	1:1000	Abcam

Supplementary Table 3. Primer sequences for RT-qPCR analysis.

Gene name	Primer sequence (5→3')
ANP (Mus musculus)	Forward primer ACCTGCTAGACCACCTGGAG Reverse primer CCTTGGCTGTTATCTTCGGTACCGG
BNP (Mus musculus)	Forward primer GAGGTCACCTCCTATCCTCTGG Reverse primer GCCATTTCTCCGACTTTTCTC
Col1a1 (Mus musculus)	Forward primer AGGCTTCAGTGGTTTGGATG Reverse primer CACCAACAGCACCATCGTTA
α -SMA (Mus musculus)	Forward primer TTCCTTCGTGACTACTGCCG Reverse primer TATAGGTGGTTTCGTGGATGCC
FN (Mus musculus)	Forward primer CACCCGTGAAGAATGAAG Reverse primer CAGGCAGGAGATTTGTTAG
TGF- β 1 (Mus musculus)	Forward primer TGGCCAGATCCTGTCCAAAC Reverse primer CATAGATGGCGTTGTTGCGG
SOD1 (Mus musculus)	Forward primer GAGACCTGGGCAATGTGACT Reverse primer GTTTACTGCGCAATCCCAAT
SOD2 (Mus musculus)	Forward primer ATTAACGCGCAGATCATGCA Reverse primer TGTCCCCCACCATTGAACTT
NOX2 (Mus musculus)	Forward primer TGTGGCTGTGATAAGCAGGA Reverse primer TCCCACTAACATCACCACCT
NOX4 (Mus musculus)	Forward primer GATTTCTGGACCTTTGTGCCTTT Reverse primer TGATGGTGACAGGTTTGTGCT
TNF- α (Mus musculus)	Forward primer ACCTGGCCTCTCTACCTTGT Reverse primer CCCGTAGGGCGATTACAGTC
IL-1 β (Mus musculus)	Forward primer GCCACCTTTTGACAGTGATGAG Reverse primer AGTGATACTGCCTGCCTGAAG
RIPK3 (Mus musculus)	Forward primer ATGTCTAAACTCTCAGCCGTA Reverse primer ATTGAGCCATAACTTGACAGA
Fis1 (Mus musculus)	Forward primer GTAGGGTTACATGGATGCCAGAGA Reverse primer GGCAAAAGCTCCTCCAGCAG
Drp1 (Mus musculus)	Forward primer CGGTTCCCTAAACTTCACGA Reverse primer GCACCATTTTCATTTGTCACG
Mid51 (Mus musculus)	Forward primer AGGATGACAATGGCATTGGC

	Reverse primer CCGATCGTACATCCGCTTAAC
Mid49 (Mus musculus)	Forward primer GCAACCAATCCACCAACAGAAT
	Reverse primer CCGGAAAAGGCGTTAAGTCAC
MFN1 (Mus musculus)	Forward primer CCATCACTGCGATCTTCGGCCA
	Reverse primer CAGCGAGCTTGTTTCTGTAGCCCT
MFN2 (Mus musculus)	Forward primer GGGGCCTACATCCAAGAGAG
	Reverse primer GCAGAACTTTGTCCCAGAGC
Opa1 (Mus musculus)	Forward primer GATGACACGCTCTCCAGTGAAG
	Reverse primer CTCGGGGCTAACAGTACAACC
GCK (Mus musculus)	Forward primer TATGAAGACCGCCAATGT
	Reverse primer CCGCCAATGATCTTTTC
PK (Mus musculus)	Forward primer TTCTGTCTCGCTACCGA
	Reverse primer GTCACCACAATCACCAG
HK1 (Mus musculus)	Forward primer TGCCAAGCTAACTCCAAACC
	Reverse primer GATACAGTCCGCTTCGGGTA
G6Pase (Mus musculus)	Forward primer ACTGTGGGCATCAATCTCCTC
	Reverse primer CGGGACAGACAGACGTTCCAGC
PEPCK (Mus musculus)	Forward primer CTGCATAACGGTCTGGACTTC
	Reverse primer GCCTTCCACGAACTTCCTCAC
GAPDH (Mus musculus)	Forward primer GGTGAAGGTCGGTGTGAACG
	Reverse primer CCCGTAGGGCGATTACAGTC
