

Tab S1. Rats exposed prenatally and continuously for 3 weeks to unfiltered Beijing air vs. those exposed to filtered Beijing air. (a) Body and organ mass. (b) Blood biomarkers (males only). LDL: low-density lipoprotein, HDL: high-density lipoprotein, TG: triglyceride, TC: total cholesterol, MDA: malondialdehyde, GSH: glutathione, GPL-1: glucagon-like pepti-1.

a. Body and organ mass (g)						b. Biomarker										
	Female					Male										
	Filtered		Unfiltered		P-value	Filtered		Unfiltered		P-value						
	(n=8)	(n=6)	(n=8)	(n=6)		(n=10)	(n=10)	(n=10)	(n=10)							
Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	P-value						
Body	45.2	5.40	48.8	8.98	0.411	45.5	5.49	50.5	9.34	0.283	LDL(μmol/L)	56.1	9.24	49.6	5.65	0.074
Liver	1.78	0.23	1.98	0.43	0.337	1.81	0.47	1.99	0.51	0.529	HDL(μmol/L)	46.5	1.07	49.1	2.20	0.006
Spleen	0.19	0.05	0.23	0.07	0.277	0.17	0.03	0.23	0.07	0.161	TG(mmol/L)	2.87	1.93	2.06	1.23	0.282
Adrenal	0.01	0.00	0.02	0.01	0.322	0.01	0.0	0.02	0.0	0.081	TC(mmol/L)	26.8	2.00	25.9	1.94	0.325
Thymus	0.17	0.05	0.18	0.03	0.615	0.16	0.04	0.19	0.05	0.241	MDA(nmol/L)	15.2	8.32	10.5	5.26	0.148
Heart	0.23	0.03	0.25	0.06	0.481	0.22	0.03	0.25	0.06	0.408	GSH(ng/mL)	2.28	1.79	2.86	2.21	0.525
Brain	1.34	0.10	1.38	0.05	0.316	1.35	0.05	1.4	0.06	0.108	GPL-1(pmol/L)	10.3	7.94	16.3	13.2	0.234
Lung	0.38	0.04	0.37	0.05	0.848	0.39	0.05	0.41	0.1	0.703						

Tab S2. Primers selected for real-time PCR analyses, based on significantly up or down regulated genes following exposure to the unfiltered air compared to exposure to the filtered air.

Primer	Forward	Reverse	Primer	Forward	Reverse
Myh7	TCAGTCATGGCGGATCGAGA	AGTCACCGTCTTGCCATTCT	Setbp1	CGAAGCCATCCAATGCGAAG	GCCCCGAGAGGTAAGTTGT
Mb	CCGGTCAAGTACCTGGAGTTTA	AGCATCTGCTCCAAAGTCCC	Nr1d1	AAGACCTTACTGCTCGGTGC	TGTAGGTGATAACACCACCTGT
Sln	GTCTTTGCTTCTCTTCAGGACGTG	GCAGCATCCCATGTCAACAG	Atp6v0a4	AGTCTCGCCATGTCATTCT	CATGTTGGCCAGCCTGTTC
RatNP-3b	CGCCAAAGTCTGAAACCACAG	AGAGAAAGGTCTAGGACACAACAT	Hbe1	TGGGAAGACTTCTCGTTGTGT	TGCCATGGGCTTTGACTCTT
Cxcl6	GGTCTGCTCGTCATTACC	GCCGAGAAAGGAGCAGCTTG	Il10	TGCGACGCTGTCATCGATT	GTAGATGCCGGGTGGTTCAA
Smpx	CAGCCACATGAAAAGCACTGG	AGGTCTTATACCTGCTCTCTGG	Cer6	TTGAAGAGTCCAGCCCCAAG	TTCATCGTTTCCAATAATGTCCG
Nppa	TTTCAAGAACCTGCTAGACCACC	GTTGACTTCCCCAGTCCAGG	Ccl2	TATGCAGGTCTCTGTACGC	GGCATTAACTGCATCTGGCTG
Myoz2	GGCTCAGTCCCCTGTTGAG	TTTTGTCCCTTGCTGTGAGA	Ccl19	TTCTCCAAGAGCAAAGGCG	ACTCACGTTTACACCAGACTC
Pthlh	ACTGCATGACAAGGGCAAGT	TGTTGGGAGCAGTTTGGAG	Cxcl13	CAGGCCACGGTATTCTGGAG	CTTTTGGTAACCATCTGGCAGT
Tnfrsf13c	CTGAGTGCTTCGACCCCTCTG	CCAGGCTGCTTGTCATGTCTA	Cyp2b2	AGGACCATGGAGCCCAGTAT	TCTCGAAGCTGCATGAAGGA
Tbx18	CCCAAAGCAAGGCAACAAA	GTCAGCGGGAGCCATACTAC	Lyc2	GACTCAAGCTGAAGGGAAGGT	ACACATCCAGTTTCCAGGC
Nr1d2	CGGGACGCTGTTTCGATTGG	CCGAAGTGGGTGCTCATCAT	Per3	CCGGAGAGGGGTAGAGACAC	AGCGCCACTGAAACCAAAAC
Vsig4	TGAGGTGAGCAGGATGTATGC	TCAGAGCCTGGGAATCTGGT	Cxadr	TCCTCCAAGAGTCCGACAT	TACTTGAAGTTAGCGGGTGCC
Dbp	TTAGTGGCGGCTTGACCTCTA	TTGTACCTCCGGCTCCAGTA	Slc4a1	ACTTCACAAAGGACCCCGA	CTGTGGGAAGAGCTTCTGACTC
Krt75	TGGTCAGCTGTGGTCACTTC	CGGCTGCTACTGGTGGTAAA	Tlr2	TGGAGGTCTCCAGGTCAAATC	TGTTTGCTGTGAGTCCCGAG
Gli3	CCCACACCCCTACATCAACC	TGGGAAATCTGGTGTCTGCC	Tlr4	CGTTTCAGCTTTGCCTTCA	CTCCAGAAGATGTGCCTCCC