
eAppendix 1: Locations of the air pollution monitors

Pollutant	Location	City	Monitors ID
Particle number	Countway Library	Boston	NA
Black Carbon	Countway Library	Boston	NA
NO₂	Harrison Avenue	Boston	250250042
	Powder Horn Hill	Chelsea	250251003
	Water Treatment	Lynn	250092006
	Kenmore Square	Boston	250250002
	340 Bremen Street	East Boston	250250021
PM_{2.5}	Countway Library	Boston	NA
SO₄⁻²	Countway Library	Boston	NA
CO	Harrison Avenue	Boston	250250042
	Federal Post Office	Boston	250092038
	Kenmore Square	Boston	250250002
	340 Bremen Street	East Boston	250250021
O₃	Harrison Avenue	Boston	250250042
	Powder Horn Hill	Chelsea	250251003
	Water Treatment	Lynn	250092006
	Beaver Street	Waltham	250174003

eAppendix 2: Spearman correlations between air pollution monitors

NO₂	250250042	250092006	250250002	250250021
250250042	1	0.61	0.75	0.54
250092006		1	0.58	0.55
250250002			1	0.52
250250021				1

CO	250250042	250092038	250250002	250250021
250250042	1	0.57	0.35	0.41
250092038		1	0.42	0.46
250250002			1	0.42
250250021				1

O₃	250250042	250092006
250250042	1	0.84
250092006		1

eAppendix 3: Distributions of the air pollutants between 2000 and 2009

	Mean	IQR	5%	50%	95%
Particle number (count/cm³)	23523	18512	8096	19879	46392
Black Carbon (µg/m³)	0.83	0.57	0.31	0.74	1.66
NO₂ (ppm)	0.018	0.011	0.006	0.017	0.035
PM_{2.5} (µg/m³)	10.84	7.14	3.77	9.10	23.03
SO₄⁻² (µg/m³)	3.13	2.44	0.76	2.38	7.93
CO (ppm)	0.37	0.28	0.05	0.30	0.87
O₃ (ppm)	0.024	0.019	0.002	0.024	0.049

eAppendix 4: Spearman correlations between pollutants pairs							
	Particle Number	Black Carbon	NO ₂	PM _{2.5}	SO ₄ ⁻²	CO	O ₃
Particle Number	1	-0.02	0.42	-0.05	-0.10	0.44	-0.43
Black Carbon		1	0.54	0.72	0.59	0.36	-0.15
NO ₂			1	0.56	0.44	0.65	-0.27
PM _{2.5}				1	0.83	0.37	0.12
SO ₄ ⁻²					1	0.09	0.19
CO						1	-0.34
O ₃							1

eAppendix 5: Positions within the promoter region at which gene-specific DNA methylation was measured

	Chromosome	Promoter Start	Promoter end	CpG (Position)
<i>F3</i>	1	94779671	94780502	94779947 (Pos1) 94779950 (Pos2) 94779956 (Pos3) 94779958 (Pos4) 94779974 (Pos5)
<i>TLR-2</i>	4	154824391	154824991	154824709 (Pos1) 154824713 (Pos2) 154824715 (Pos3) 154824723 (Pos4) 154824727 (Pos5)
<i>ICAM-1</i>	19	10242017	10242937	10242236 (Pos1) 10242225 (Pos2) 10242218 (Pos3)
