

Additional file 9

A

Group	Lactate dehydrogenase (U/l)		β -glucuronidase (U/l)		Total protein (mg/l)	
	D1	D14	D1	D14	D1	D14
Clean air	30.8 \pm 10.4	24.8 \pm 5.6	0.24 \pm 0.05	0.26 \pm 0.05	99.6 \pm 7.8	97.6 \pm 17.3
P90	43.0 \pm 27.1	29.2 \pm 11.0	0.34 \pm 0.21	0.28 \pm 0.08	128.0 \pm 34.6	102.0 \pm 12.3
P90-BaP	34.0 \pm 14.3	23.2 \pm 2.6	0.20 \pm 0.00	0.26 \pm 0.05	99.6 \pm 10.4	93.6 \pm 14.4
AS-PAH	55.0 \pm 14.7	29.0 \pm 4.1	0.38 \pm 0.08	0.32 \pm 0.08	139.0 \pm 21.7	106.0 \pm 11.9

B

Group	Tail intensity (%)		Tail intensity (%)	
	Day 1		Day 14	
	-hOGG1	+hOGG1	-hOGG1	+hOGG1
Clean air	0.78 \pm 0.18	0.66 \pm 0.27	1.07 \pm 0.74	0.93 \pm 0.08
P90	1.70 \pm 0.27*	1.59 \pm 0.87	1.57 \pm 0.90	1.16 \pm 0.67
P90-BaP	1.25 \pm 0.36*	1.23 \pm 0.28	1.18 \pm 0.52	1.35 \pm 0.88
AS-PAH	1.60 \pm 0.39*	1.38 \pm 0.43	1.91 \pm 0.67	2.32 \pm 1.47
KBrO ₃ i.p.	1.97 \pm 1.17 ^a	4.78 \pm 0.28 ^a	0.49 \pm 0.19	2.82 \pm 2.00 [#]

CBNP did not increase enzyme nor total protein levels in BAL and did not induce oxidative DNA-damage in BAL cells after nose-only inhalation.

A) The table shows the enzyme and total protein level determined in the BAL after the exposure time on day 1 and day 14 recovery period. Data are mean \pm SD; n=5, *p<0.05 CBNP compared to clean air control; D1=day 1 post-exposure, D14=day 14 post-exposure

Results of Comet assay are shown in table (B). DNA-strand breaks and oxidative DNA damage (hOGG1) were analyzed in BAL cells on day 1 and 14 of recovery period. Data are mean \pm SD; n=5, ^ameans of only two animals, because of obvious misinjection, *p<0.05 CBNP compared to clean air control group, [#]p<0.05 data are significantly different from slides without hOGG1 treatment on day 14 post-exposure, i.p.=intraperitoneal exposure to KBrO₃.