



Supplementary Material

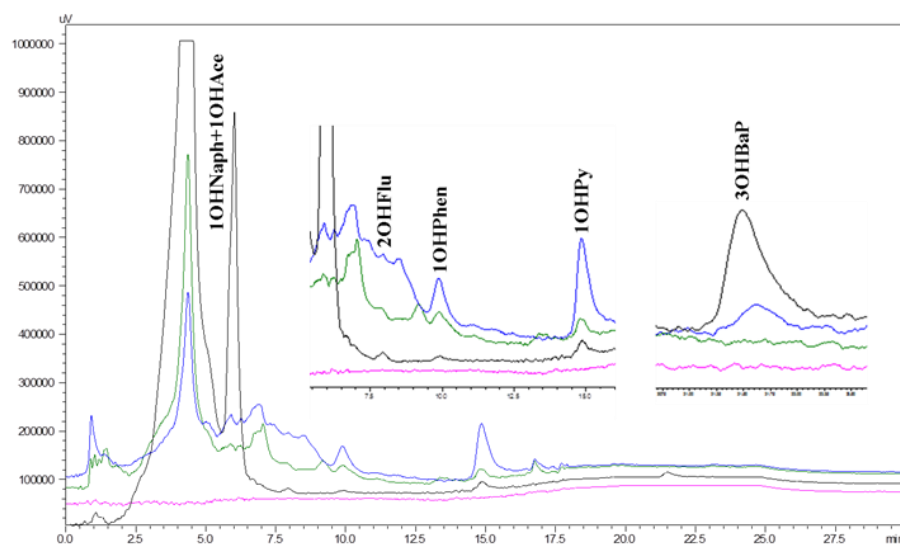
# Grill Workers Exposure to Polycyclic Aromatic Hydrocarbons: Levels and Excretion Profiles of the Urinary Biomarkers

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**Table S1.** Calibration data obtained ( $n \geq 6$ ) for the analysed PAH metabolites in the urine of grill workers.

Compound <sup>a</sup>	Calibration range	Regression equation <sup>b</sup>	R <sup>2</sup>	LOD <sup>c</sup>	LOQ <sup>c</sup>
1OHNaph+1OHAce (mg/L)	4.04-80.80	$y = 9484x - 26589$	0.9996	0.195	0.650
2OHFlu ( $\mu\text{g/L}$ )	0.020-0.250	$y = 618137x - 2554$	0.9991	$0.800 \times 10^{-3}$	$2.80 \times 10^{-3}$
1OHPhen ( $\mu\text{g/L}$ )	0.060-0.500	$y = 363043x - 14797$	0.9991	$2.20 \times 10^{-3}$	$7.30 \times 10^{-3}$
1OHPy ( $\mu\text{g/L}$ )	0.060-0.500	$y = 396248x - 7289$	0.9990	$2.60 \times 10^{-3}$	$8.50 \times 10^{-3}$
3OHBaP ( $\mu\text{g/L}$ )	0.020-0.400	$y = 918840x - 9401$	0.9990	$1.10 \times 10^{-3}$	$3.50 \times 10^{-3}$

<sup>a</sup> 1OHNaph: 1-hydroxynaphthalene; 1OHAce: 1-hydroxyacenaphthene; 2OHFlu: 2-hydroxyfluorene; 1OHPhen: 1-hydroxyphenanthrene; 1OHPy: 1-hydroxypyrene; 3OHBaP: 3-hydroxybenz(a)pyrene; <sup>b</sup> y - absorbance; x - concentration (mg/L); <sup>c</sup> Data is presented on urine basis by applying a conversion factor of 0.10 to the LOD and LOQ on a solvent basis.



**Figure S1.** High Performance Liquid Chromatography with fluorescence detection chromatograms of solvent baseline (pink line), standard mixture containing 6 PAH metabolites (1OHNaph+1OHAce – 80.80 mg/L, 2OHFlu – 0.40  $\mu\text{g/L}$ , 1OHPhen – 0.40  $\mu\text{g/L}$ , 1OHPy – 0.40  $\mu\text{g/L}$ , 3OHB(a)P – 0.40  $\mu\text{g/L}$ ) (black line), a grill worker urine sample during non-working period (green line) and a grill worker urine sample during working period (blue line).