

Supplementary Table 4. Polycyclic aromatic hydrocarbons representatives and their metabolites

PAH compounds	Category	Metabolites measured for biomonitoring	Common applications or usage
LMW PAHs			
Naphthalene	Alternant	1-naphthol, 2-naphthol	Industrial processes, mothballs, tobacco smoke, cooking fumes
Phenanthrene	Alternant	1-hydroxyphenanthrene, 2-hydroxyphenanthrene, 3-hydroxyphenanthrene	Fossil fuel combustion, coal tar, smoked foods
Fluorene	Nonalternant	9-hydroxyfluorene, 2-hydroxyfluorene	Vehicle emissions, coal combustion
HMW PAHs			
Fluoranthene	Nonalternant	2,3-dihydrobenzo[k]fluoranthene-2,3-diol	Biomass burning, industrial emissions
Benzo[a]anthracene	Alternant	5,6-Dihydroxybenzo[a]anthracene	Diesel exhaust, grilled meats, tobacco smoke
Pyrene	Alternant	1-hydroxypyrene	Traffic emissions, coal tar, asphalt production
Benzo[a]pyrene	Alternant	7,8-dihydroxybenzo[a]pyrene, 7,8,9,10-tetrahydroxybenzo[a]pyrene	Grilled foods, cigarette smoke, industrial emissions

LMW, low molecular weight; HMW, high molecular weight; PAHs, polycyclic aromatic hydrocarbons.