



Supplementary Figure 2. Pearson's correlations between measures of urinary biomarkers of smoking-related toxicants among the Multiethnic Cohort (MEC) subcohort of current smokers and incident lung cancer cases ^a

^a **Abbreviations.** TNE, total nicotine equivalents; Total 3-HCOT/cotinine, the ratio of trans 3'-hydroxycotinine [3HCOT]/cotinine is a measure of cytochrome P450 2A6 activity; Total NNAL, 4-(methylnitrosamino)-1-3-pyridyl)-1-butanol; SPMA, S-phenylmercapturic acid; 3-HPMA, 3-hydroxypropyl mercapturic acid; PheT, phenanthrene tetraol; PheOH, 3-hydroxyphenanthrene; PheT/PheOH, a proposed biomarker of metabolic activation of polycyclic aromatic hydrocarbons (PAH); Cd, cadmium; 8-iso-PGF2alpha, (Z)-7-[1R,2R,3R,5S]-3,5-dihydroxy-2-[(E,3S)-3-hydroxyoct-1-enyl]cyclopentyl]hept-5-enoic acid.

All urinary biomarkers were standardized using log transformation and dividing the individual value by the overall population SD of the log biomarker. The SD of the log-biomarker can be found in Supplementary Table 2.

The values in the squares represent the rho (r) values for the correlation between biomarkers, where r is the strength of the relationship between the two variables.

The heatmap colored correlation matrix demonstrates one color a positive correlation (green) and the other color indicates a negative correlation (brown). The shade indicates the strength of correlation.

Total number of observations = 1,693