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Placental DNA Methylation Related to Both Infant Toenail Mercury and Adverse Neurobehavioral Outcomes

Jennifer Z.J. Maccani, Devin C. Koestler, Barry Lester, E. Andrés Houseman, David A. Armstrong, Karl T. Kelsey, and Carmen J. Marsit

Table S1. Mean and standard deviation of 13 NNNS scores in infants with non-high-risk vs high-risk NNNS profiles.

Table S2. Mean β values and p-values of 339 CpG loci associated with infant toenail Hg (omnibus p-value=0.017; $\Delta\beta > 0.125$ between any two Hg tertiles). “NA” indicates that a locus does not fall within a defined gene region according to Illumina annotation data.

Figure S1. Heatmap demonstrating methylation in an independent set of 151 placental samples at 339 Hg-associated loci. Placental samples are in columns; rows are 339 loci. High-risk (red) and low-risk (blue) neurobehavioral profiles are color-coded above figure.

Figure S2. Plot of placental *EMID2* methylation at 6 CpG loci significantly associated with both infant toenail Hg tertile and high-risk neurobehavioral profile and placental *EMID2* gene expression: A) cg13267931, $r = -0.40$; B) cg27179533, $r = -0.36$; C) cg14874750, $r = -0.39$; D) cg23424003, $r = -0.33$; E) cg27528510, $r = -0.37$; F) cg14048874, $r = -0.45$.