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Supplemental Material

Development and Validation of a Novel Placental DNA Methylation Biomarker of Maternal Smoking during Pregnancy in the ECHO Program

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Figure S1. Consort diagram of samples used in the VCSIP training dataset.

Figure S2. Important CpGs for each model (A-C) ranked by importance and overlap across models (D).

Figure S3. Boxplot distributions of PSI scores for each model in each dataset. Boxes indicate the interquartile range (IQR; 25th to 75th percentiles) of the data with horizontal lines across the median. Error bars indicate 1.5 * IQR and points indicate outliers beyond that range. Nonsmokers consistently had lower PSI scores than smokers, and this is most apparent in the VCSIP training data, as expected.

Figure S4. EWAS Atlas enriched traits, GO, and KEGG terms in CpGs included in PSI models. The $-\log_{10}$ PValue is presented on the x-axis and the enriched categories are on the y-axis. The size of the dots indicates the number of loci in each category. Facets separate different datasets used for enrichment analysis.

Additional File- Excel Document