**Supplementary Table S1.** The mean β values of probes annotated to the HDHD1 gene.

|  |
| --- |
| Male offspring Female offspring  cg02027844 0.54 0.76  cg03572700 0.51 0.86  cg18204732 0.59 0.78 |

**Supplementary Table S2.** Multivariate adjusted coefficients of Hg concentrations in cord serum according to the methylation status of the cord tissue using standardised variables.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model 1 |  | Estimate | Std. Error | t value | Pr(>|t|) |
|  | (Intercept) | -1.77E-16 | 0.168 | -1.05E-15 | 1 |
|  | Hg | 0.481 | 0.179 | 2.693 | 0.013 |
|  | Maternal age | -0.219 | 0.182 | -1.205 | 0.240 |
|  | Birth weight | 0.007 | 0.182 | 0.041 | 0.968 |
| Model 2 |  | Estimate | Std. Error | t value | Pr(>|t|) |
|  | (Intercept) | -9.95E-17 | 0.171 | -5.81E-16 | 1 |
|  | Hg | 0.464 | 0.185 | 2.502 | 0.020 |
|  | Maternal age | -0.194 | 0.193 | -1.006 | 0.325 |
|  | Birth weight | -0.009 | 0.189 | -0.047 | 0.963 |
|  | Se | -0.087 | 0.188 | -0.466 | 0.646 |
| Model 3 |  | Estimate | Std. Error | t value | Pr(>|t|) |
|  | (Intercept) | -4.71E-16 | 0.164 | -2.88E-15 | 1 |
|  | Hg | 0.424 | 0.175 | 2.418 | 0.024 |
|  | Maternal age | -0.305 | 0.191 | -1.599 | 0.124 |
|  | Gestational age | 0.270 | 0.184 | 1.472 | 0.155 |
|  | Se | -0.022 | 0.181 | -0.122 | 0.904 |
| Model 4 |  | Estimate | Std. Error | t value | Pr(>|t|) |
|  | (Intercept) | -2.18E-17 | 0.166 | -1.32E-16 | 1 |
|  | Hg | 0.460 | 0.188 | 2.443 | 0.023 |
|  | Maternal age | -0.180 | 0.192 | -0.942 | 0.357 |
|  | Birth weight | -0.014 | 0.180 | -0.076 | 0.940 |
|  | Epithelial cell ratio | 0.207 | 0.181 | 1.142 | 0.266 |
|  | Endothelial cell ratio | 0.210 | 0.178 | 1.180 | 0.251 |