Supplementary Table 2 Pathways associated with the Top 1000 CpG sites (500 hyper and 500 hypomethylated sites)

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| --- | --- | --- | --- | --- | --- |
| Pathway name | Set size | Candidates contained | p-value | q-value | Pathway source |
| Chemokine signaling pathway | 189 | 11 | 1.26e-05 | 0.00072 | KEGG |
| Cytokine – cytokine receptor interaction | 294 | 13 | 3.84e-05 | 0.0011 | KEGG |
| NF-kappa B signaling pathway | 95 | 7 | 0.00011 | 0.00208 | KEGG |
| Immune System | 1840 | 34 | 0.00318 | 0.0453 | Reactome |
| Human cytomegalovirus infection | 225 | 8 | 0.00477 | 0.0544 | KEGG |
| Toll-like receptor signaling pathway | 104 | 5 | 0.00726 | 0.066 | KEGG |
| mTOR signaling pathway | 101 | 6 | 0.00811 | 0.066 | KEGG |