DNA methylation on the genome of gastric cancer

1. **Datasets collected from GEO of NCBI**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **GSE\_Acc** | **platform** | **# of normal** | **# of cancer** |
| 1 | GSE30601 | [GPL8490](https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL8490) | 94 | 203 |
| 2 | GSE25869 | [GPL8490](https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL8490) | 32 | 32 |
| 3 | GSE99553 | GPL13534 | 42 | 42 |
| 4 | GSE103186 | GPL13534 | 61 | 130 |

Publications:

[1]. Zouridis, Hermioni, et al. "Methylation subtypes and large-scale epigenetic alterations in gastric cancer." *Science translational medicine* 4.156 (2012): 156ra140-156ra140.

[2]. Kwon OH, Park JL, Kim M, Kim JH et al. Aberrant up-regulation of LAMB3 and LAMC2 by promoter demethylation in gastric cancer. Biochem Biophys Res Commun 2011 Mar 25;406(4):539-45. PMID: [21345334](https://www.ncbi.nlm.nih.gov/pubmed/21345334)

[3]. Woo, Hae Dong, et al. "Genome‐wide profiling of normal gastric mucosa identifies Helicobacter pylori‐and cancer‐associated DNA methylome changes." International journal of cancer 143.3 (2018): 597-609.

[4] Huang, Kie Kyon, et al. "Genomic and epigenomic profiling of high-risk intestinal metaplasia reveals molecular determinants of progression to gastric cancer." Cancer Cell 33.1 (2018): 137-150.

Platform Information:

* **GPL8490** Illumina HumanMethylation27 BeadChip (HumanMethylation27\_270596\_v.1.2)
* **GPL13534** Illumina HumanMethylation450 BeadChip (HumanMethylation450\_15017482)