

Technical Note:

DNA methylation profiling in 1% of the human genome in a DNA methyl-transferase knock-out cell line

Method

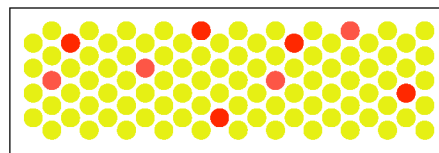
1. Treat



2. Label

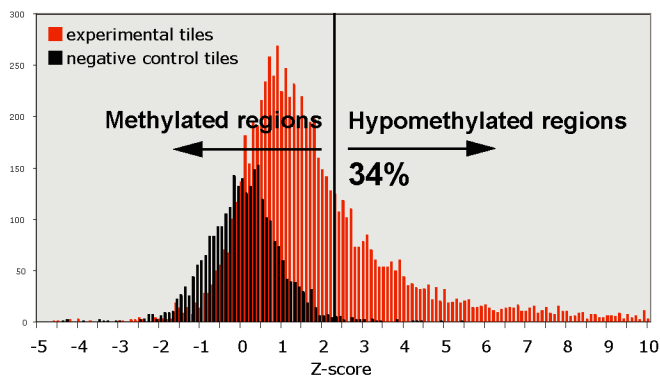


3. Hybridize

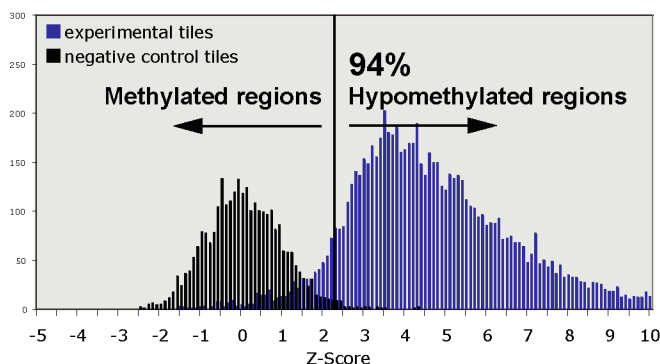


Hypomethylated regions in 1% of the human genome

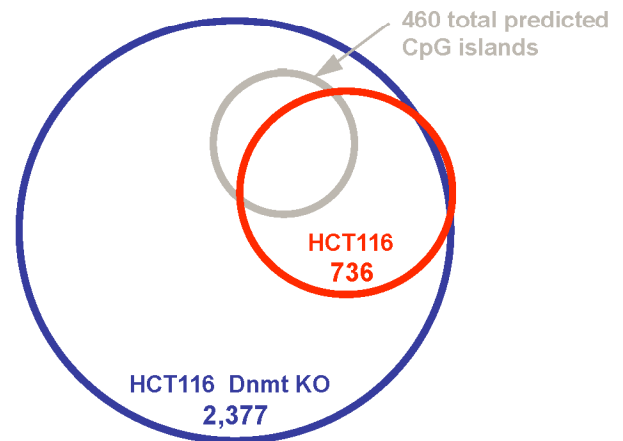
HCT116 colorectal cancer cell line



HCT116 Dnmt KO cell line



Total hypomethylated regions in 1% of the human genome



- ▶ We detected 2,385 total hypomethylated regions
- ▶ All annotated CpG islands were detected in the Dnmt KO cell line
- ▶ We detected 1,917 additional hypomethylated regions that were not annotated as CpG islands