HpaII tiny fragment Enrichment by Ligation-mediated PCR (HELP) Assay with NimbleGen Arrays (Roche)

Acute Lymphoblastic Leukemia Phase 2 (ALL P2) - Methylation

*Protocol performed at Weill Cornell Medical College.

DNA was extracted using QIAGEN QIAamp DNA Mini Kit according to manufacturer's protocol at St. Jude's Children's Research Hospital.

Nucleic acid labeling, hybridization and array scanning protocols were used according to NimbleGen (Roche) manufacturer's protocols (see NimbleGen Dual-color DNA Labeling Kit, NimbleGen Hybridization System 4 and NimbleGen MS 200 Microarray Scanner respectively).

Normalization data transformation protocols were carried out at as follows: Median normalized log2 ratio of signal intensity of HpaII and MspI, as detailed in Thompson et al, Bioinformatics 2008;24:1161-7. Software: NimbleScan version 2.5.26, Value: median normalized log2-transformed HpaII/MspI ratios, "NA": if MspI signal intensity < 1 mean absolute deviation (MAD) above the median of random probe signals.

Transformation of Level 2 data matrix into per sample Level 3 files with probe set gene annotations added was performed at NCI Center for Bioinformatics and Information Technology.