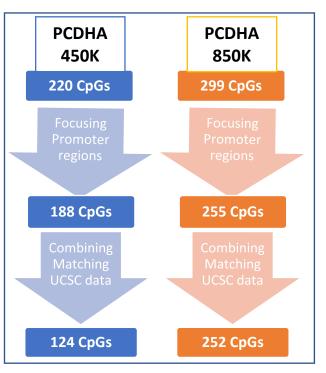
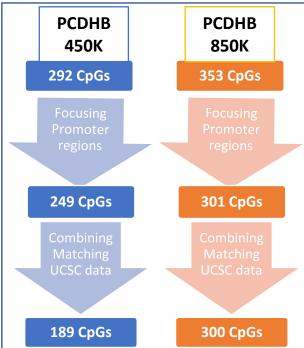
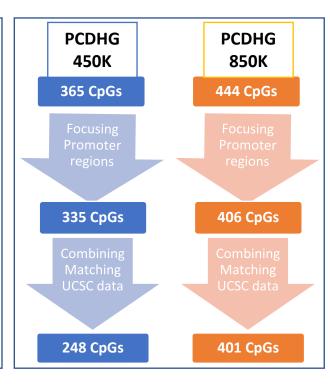
Analysis of Illumina HumanMethylation450K data for cPCDHs

Methylation levels of CpGs (450K) located in the promoter regions PCDHG genes for SOTOS, ICF, CHARGE, DUPLICATION7q, Chr16DEL and KABUKI syndromes.

Number of CpGs located in the promoter regions of PCDHs (450K vs 850K)

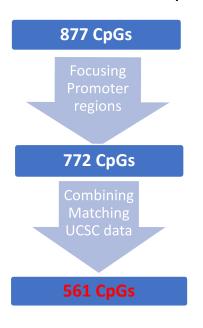






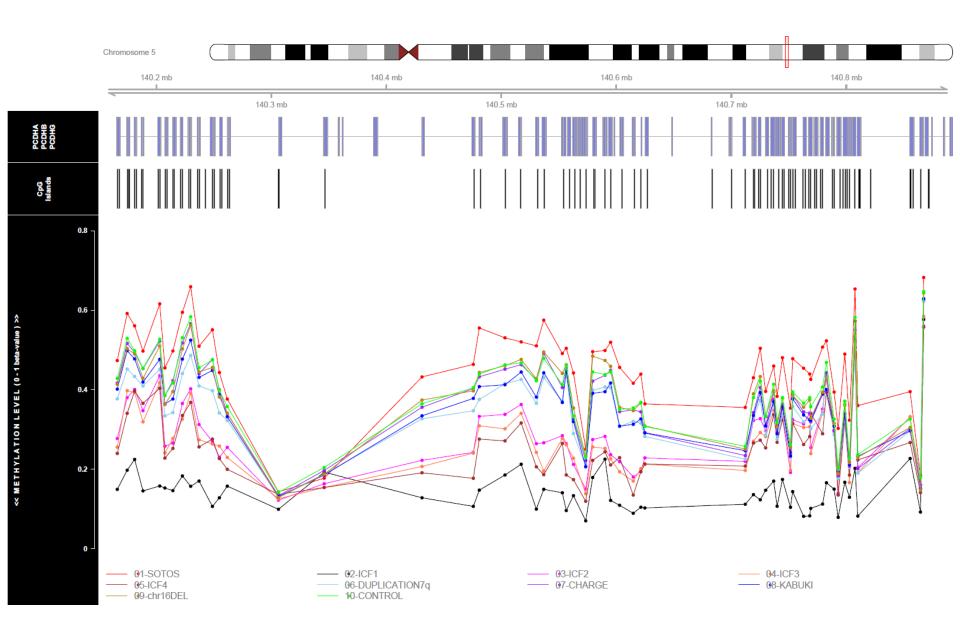
Methylation levels of CpGs (450K) located in the promoter regions PCDHG genes for SOTOS, ICF, CHARGE, DUPLICATION7q, Chr16DEL and KABUKI syndromes.

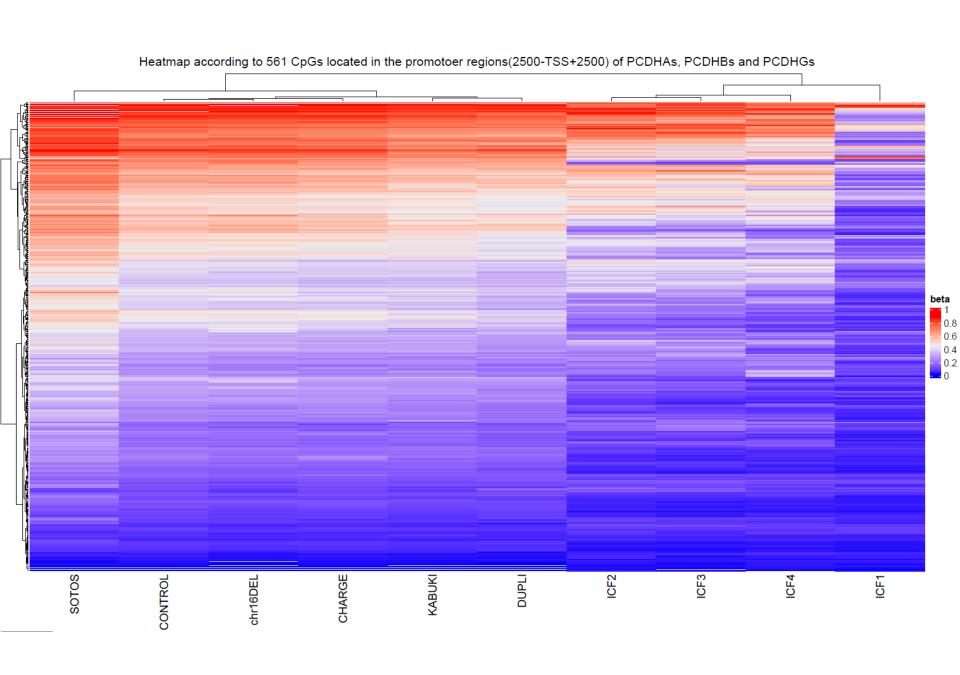
- 365 CpGs are in 450K.
- 335 CpGs are in the promoter regions.
- After combining individual beta values from 6 disorders with 772 CpGs from UCSC script, 561
 CpGs were detected in the promoter regions of PCDHs.



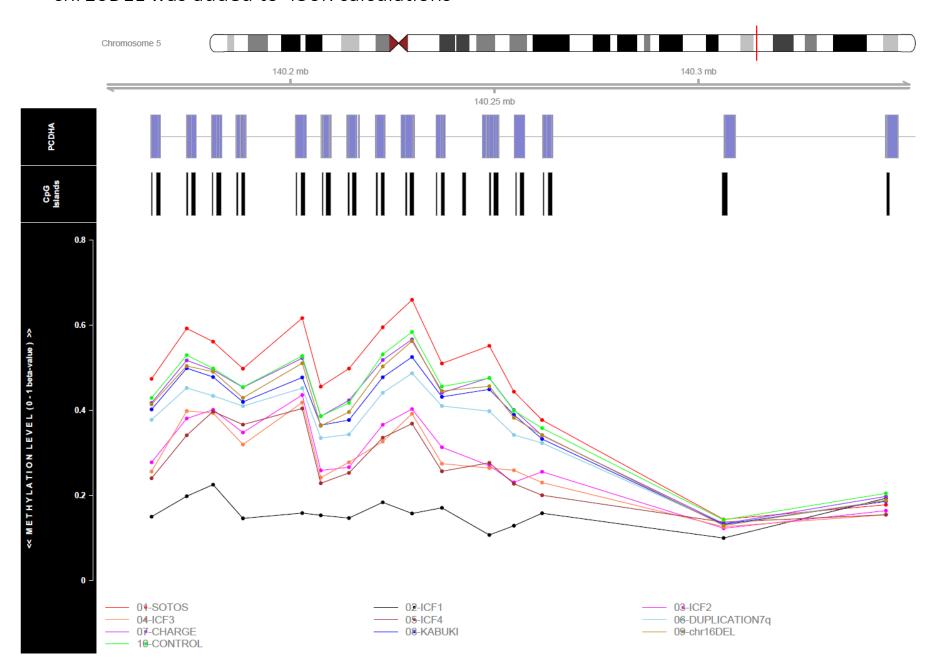
Disorder	Number of samples	GEO accession
Sotos	10	GSE74432
Charge	10	GSE97362
Duplication7q11.23	10	GSE66552
Kabuki	10	GSE97362
ICF1	8	GSE95040
ICF2	4	GSE95040
ICF3	2	GSE95040
ICF4	1	GSE95040
Chr16DEL	10	GSE113967
Control	20	GSE74432
Total sample size	85	

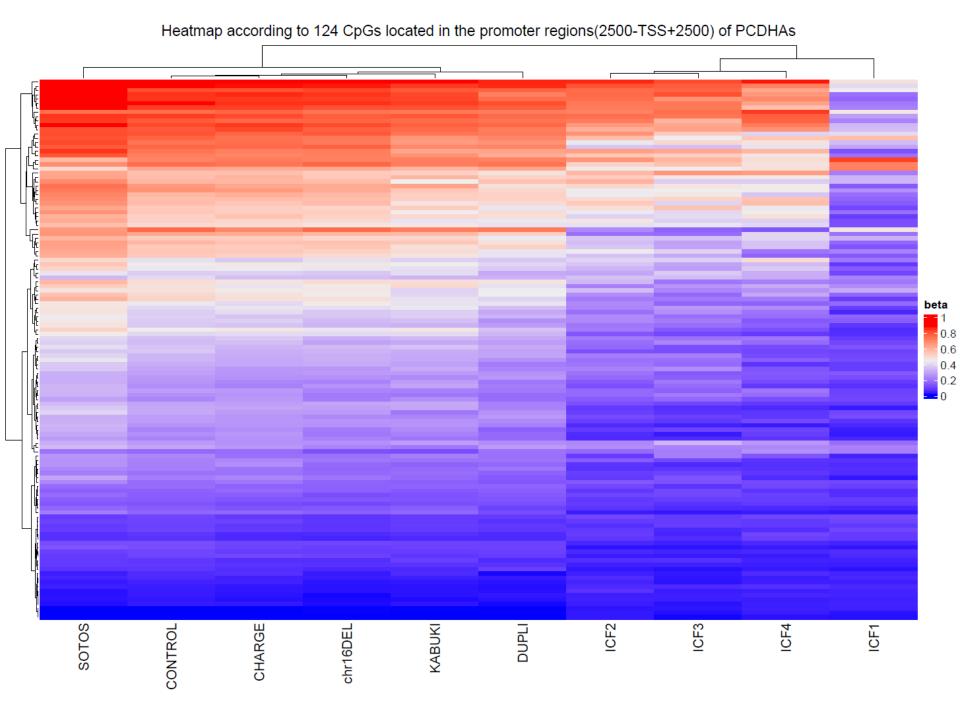
- IlluminaHumanMethylation450kanno.ilmn12.hg19 and IlluminaHumanMethylation450kmanifest were used for gene and CpG positions.
- tssRegion=c(-2500, 2500) was used for annotations.
- Beta values for CpGs were obtained from GEO database.

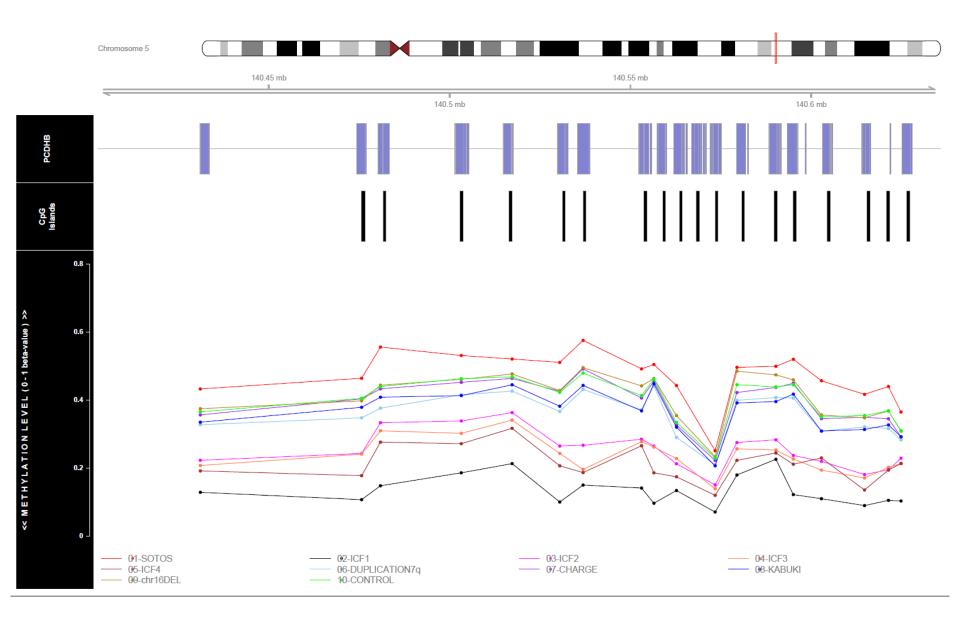


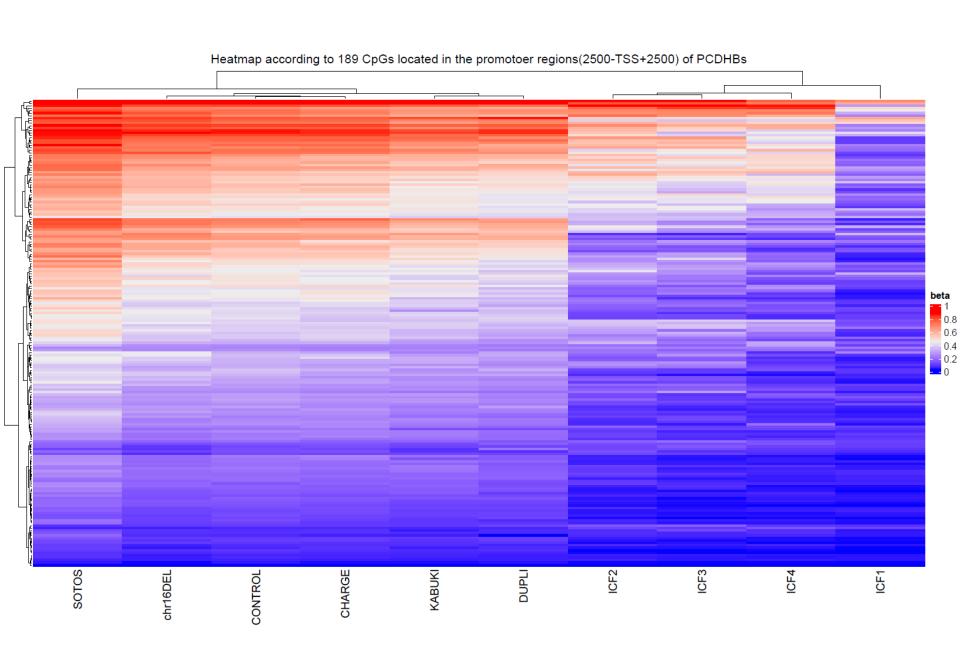


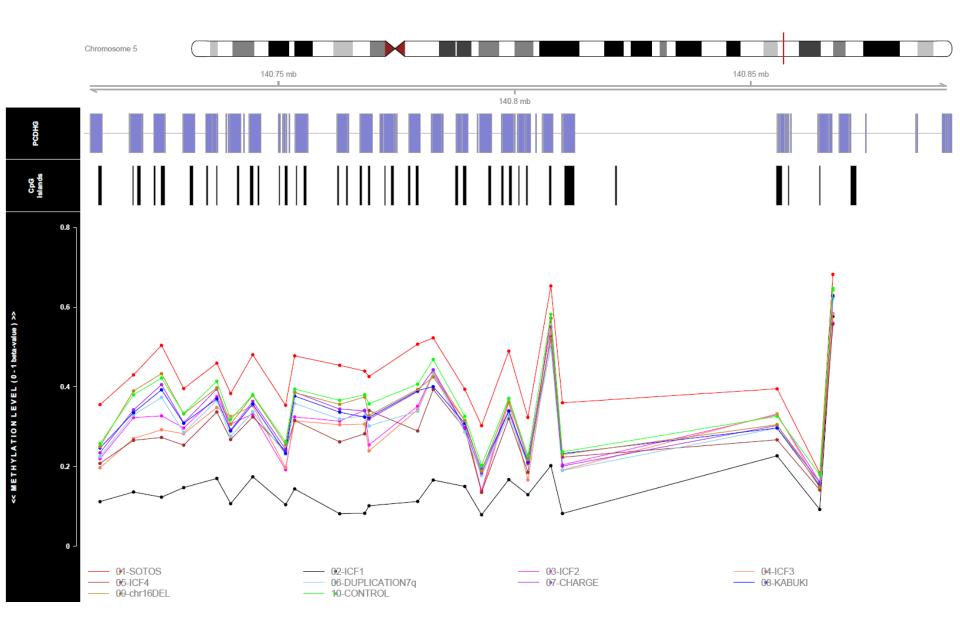
chr16DEL was added to 450K calculations











Heatmap according to 248 CpGs located in the promotoer regions(2500-TSS+2500) of PCDHGs

