

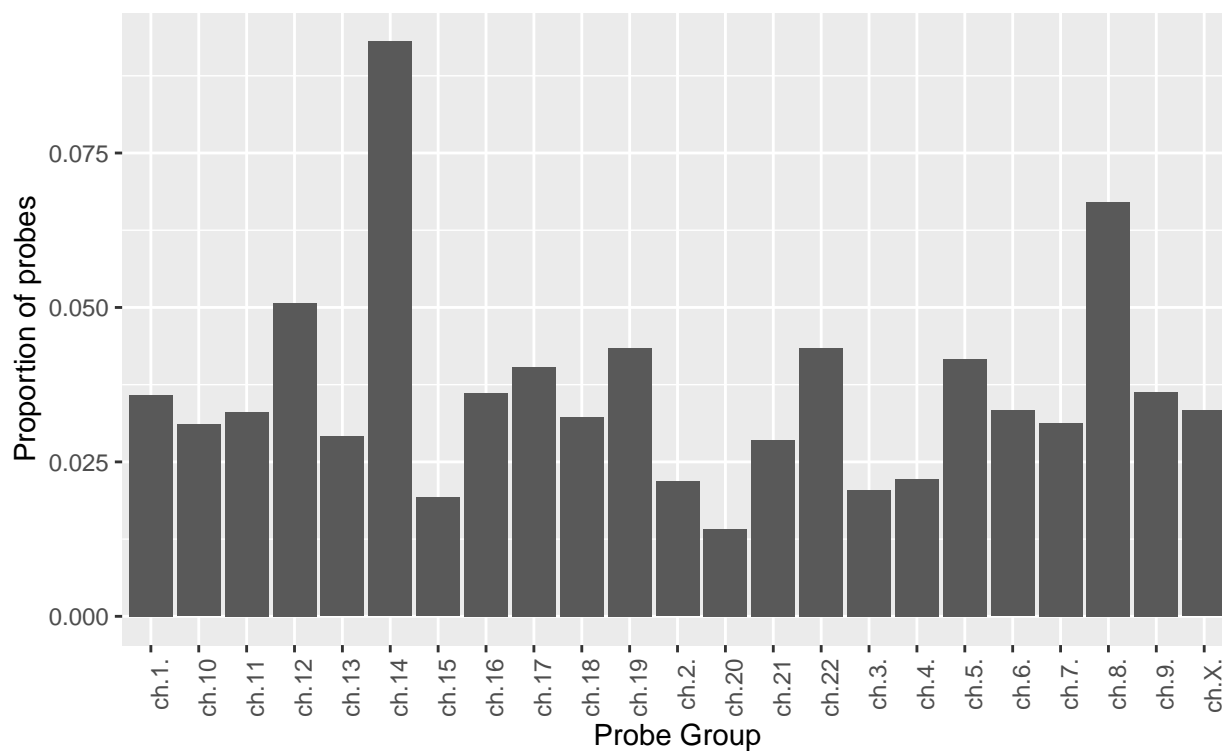
Analysis of Methylation for Crohn's Disease

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January 05, 2020

Comparing adipocyte methylation in Crohn's to Non-Crohn's

The plot shows that the probe group of ch.14 seems to be over-represented.



Timing Comparison

Time for computing the 1,000 permutations.

part h - sequential: 53.517s

part i - mclapply: 27.461s

part j - futures: 42.585

Results

Table 1: *P-values for testing whether the observed T score for each group is larger than expected under the null hypothesis that patterns of gene expression are the same across the Crohn's and non-Crohn's groups after 1000 permutations.*

probe_group	T_abs	T_up	T_down
ch.1.	0.4695305	0.0999001	0.9520480
ch.10	0.4575425	0.1808192	0.8261738
ch.11	0.4775225	0.2267732	0.9150849
ch.12	0.2287712	0.1088911	0.8351648
ch.13	0.5884116	0.0869131	0.9890110
ch.14	0.0829171	0.0449550	0.6413586
ch.15	0.6293706	0.1098901	0.9640360
ch.16	0.4185814	0.0859141	0.9920080
ch.17	0.4575425	0.1828172	0.8451548
ch.18	0.6303696	0.2197802	0.9340659
ch.19	0.4355644	0.1378621	0.7542458
ch.2.	0.7102897	0.3476523	0.7312687
ch.20	0.7812188	0.1788212	0.7822178
ch.21	0.5264735	0.3096903	0.2857143
ch.22	0.4165834	0.2127872	0.9190809
ch.3.	0.6883117	0.2497502	0.0809191
ch.4.	0.5354645	0.1268731	0.4705295
ch.5.	0.4025974	0.1098901	0.9860140
ch.6.	0.4905095	0.1828172	0.7202797
ch.7.	0.5954046	0.1958042	0.9540460
ch.8.	0.1768232	0.1298701	0.6563437
ch.9.	0.5604396	0.1868132	0.9500500
ch.X.	0.4985015	0.1378621	0.1618382