

Task 7
Homework 6: DNA copy number analysis using R
HIDS-7003-01

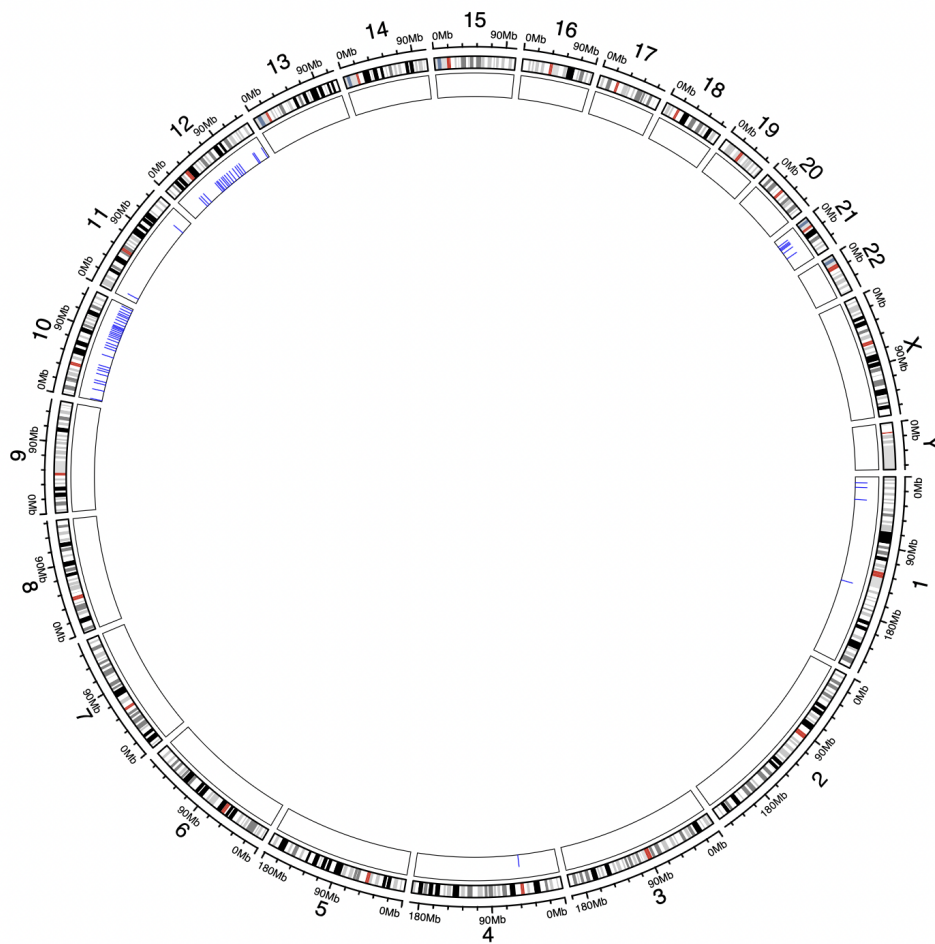


Diagram 1. Circos plot displaying the summary of the group comparison analysis on the copy number data in Hepatocellular Carcinoma (HCC/Liver cancer) dataset, featuring top differentially altered cytoband in patients with vascular invasion vs. non-vascular invasion.

Significantly differentiated cytobands:

According to the derived Circos plot diagram of the performed analysis (Diagram 1), the top three affected chromosomes appear to be chromosomes 10, 12 and 21.

Overall, the analysis revealed significantly differentiated cytobands in six chromosomes in patients with vascularly invasive Hepatocellular Carcinoma patients. In addition to the aforementioned chromosomes, there are also chromosomes 1, 11 and 4.