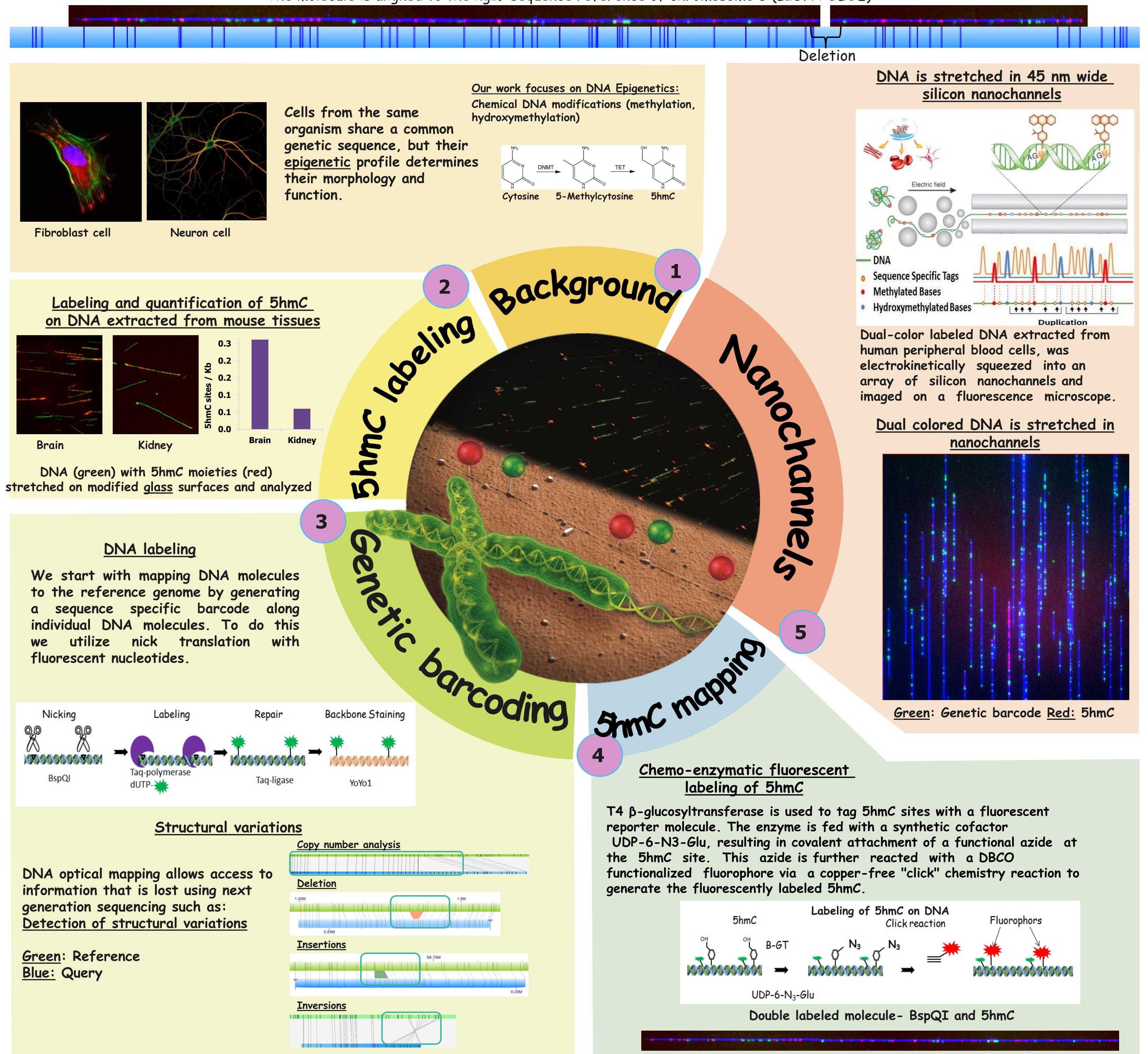
EPIGENETIC MAPPING OF HUMAN CHROMOSOMES IN NANOCHANNEL ARRAYS

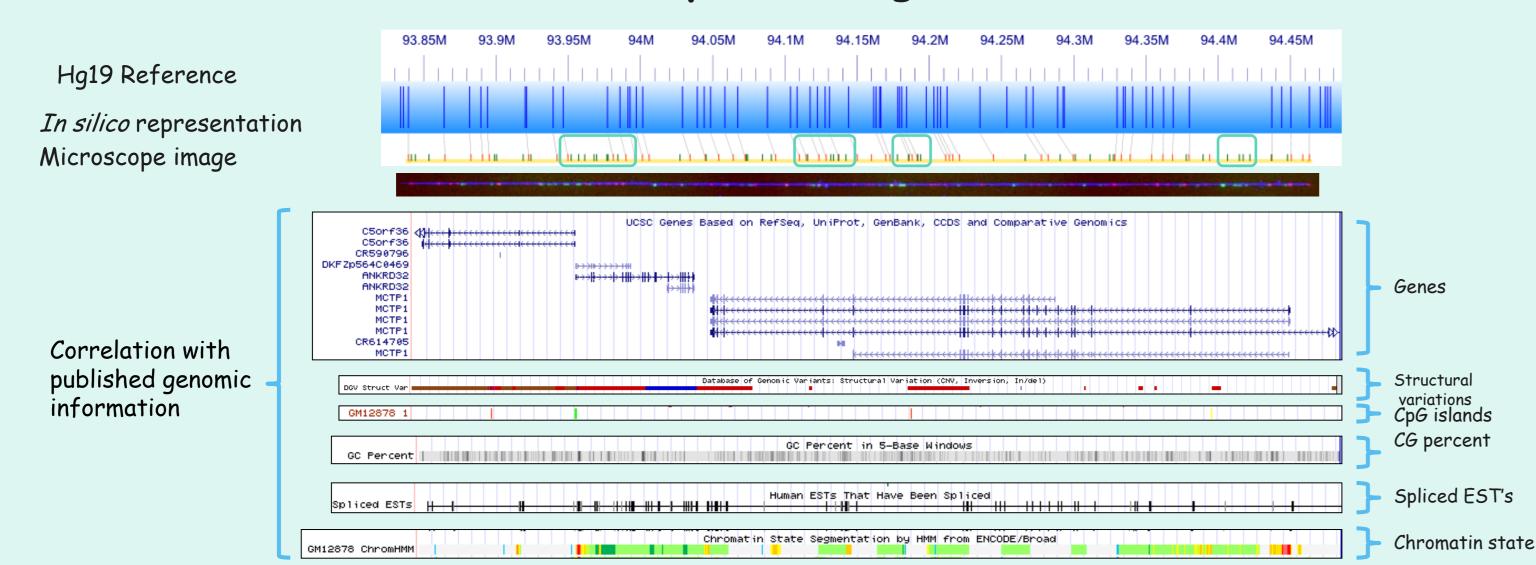
HX.

Tslil Gabrieli, Yael Michaeli, Tamar Shahal, Hila Sharim, Yuval Ebenstein School of Chemistry, Tel Aviv University, Tel Aviv, Israel

600kb human DNA molecule (blue) labeled with genetic barcode (red) and showing the corresponding 5hmC pattern (green). The molecule is aligned to the hg19 sequence reference of chromosome 5 (LIGHT BLUE)



Alignment of double labeled single DNA molecules to an *in-silico* map in correlation with published genomic information



Comparison of 5hmC sequencing and 5hmC genome mapping

