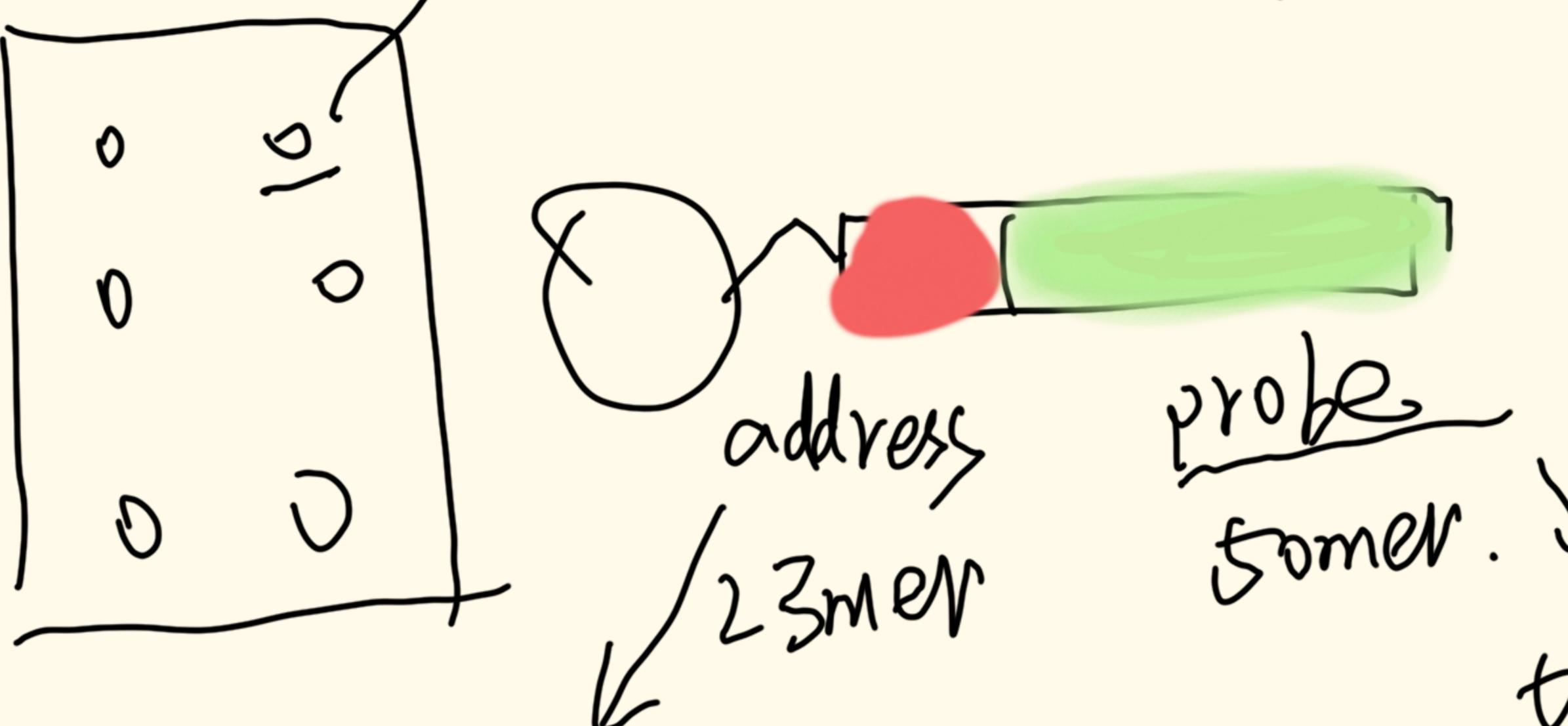
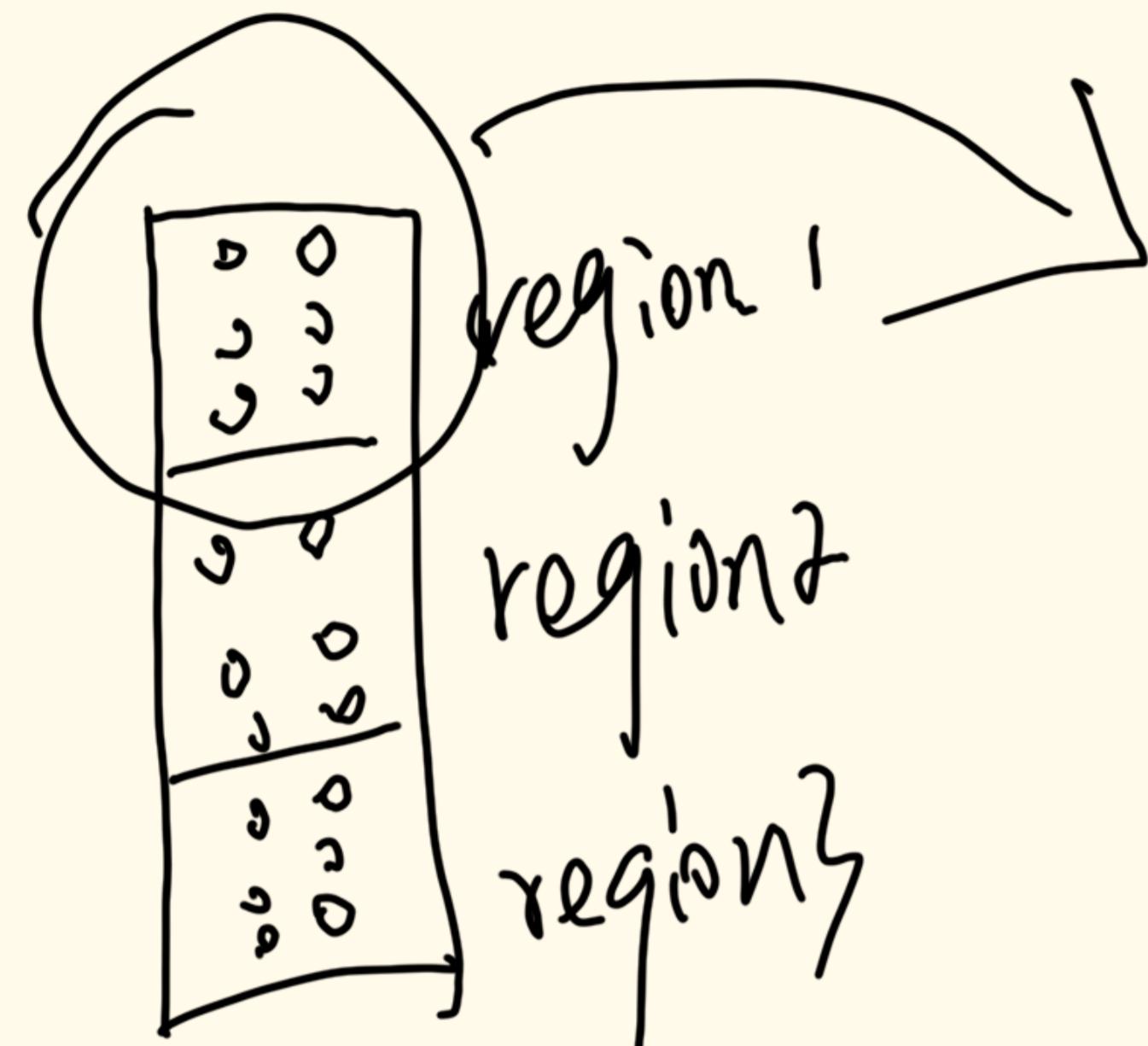


SNP Array

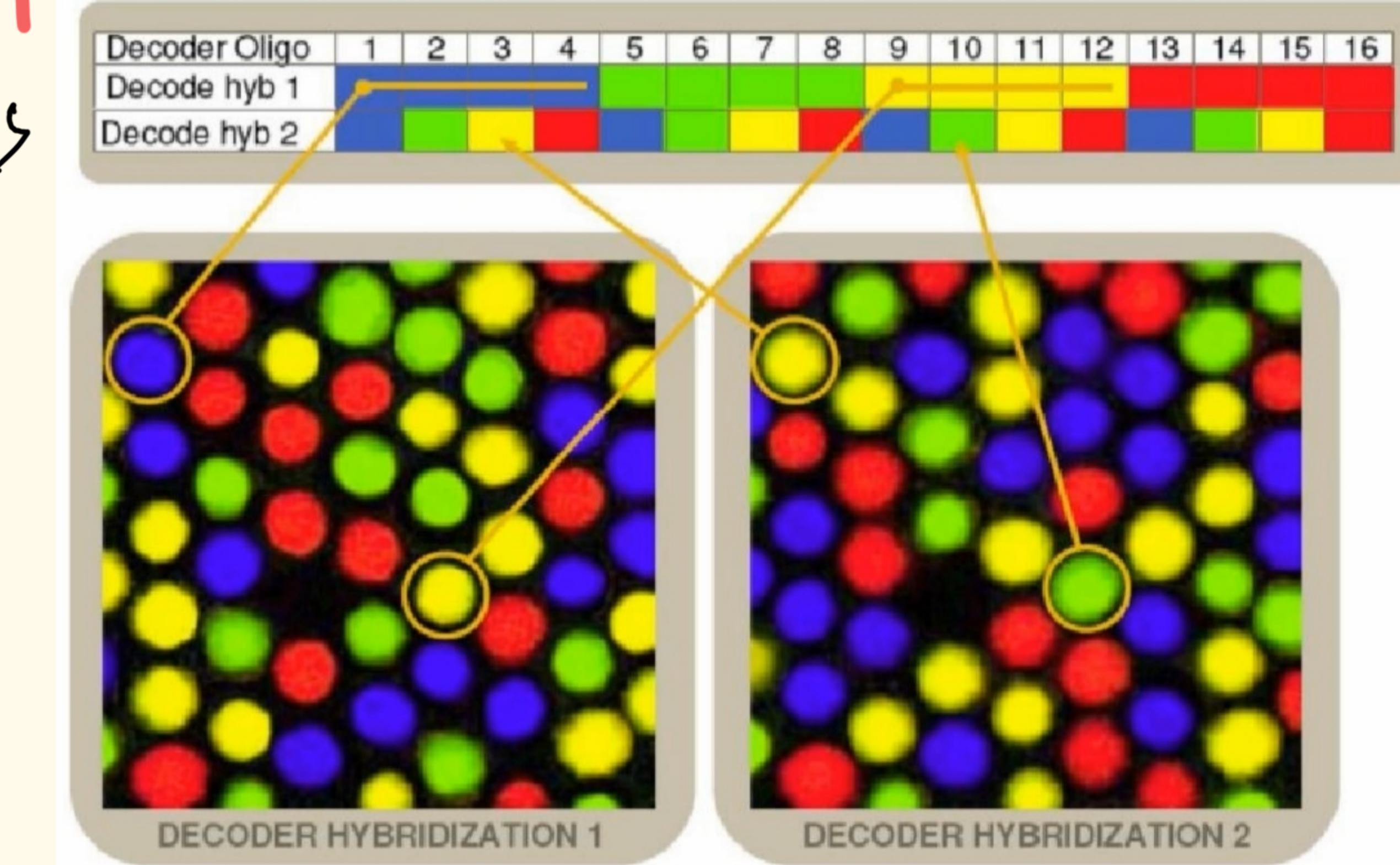
→ Several hundred thousand of microbeads, random distribution



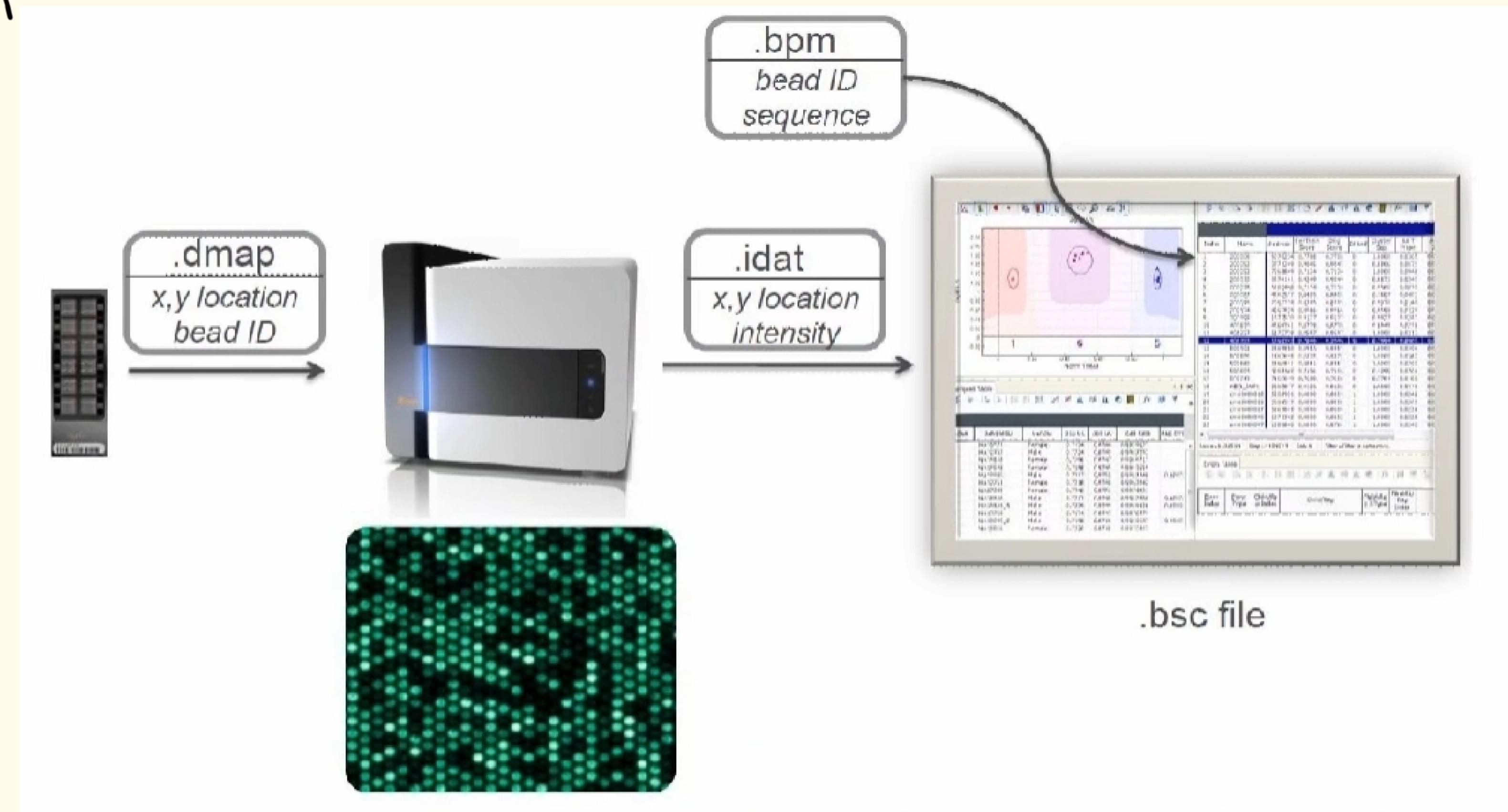
the 5' end of DNA fragment
random permutation and combination
 4^{23} identification

↓ function of address

identify the type of microbeads
by sequencing the address.
microbead ← probe
↓ by ↓

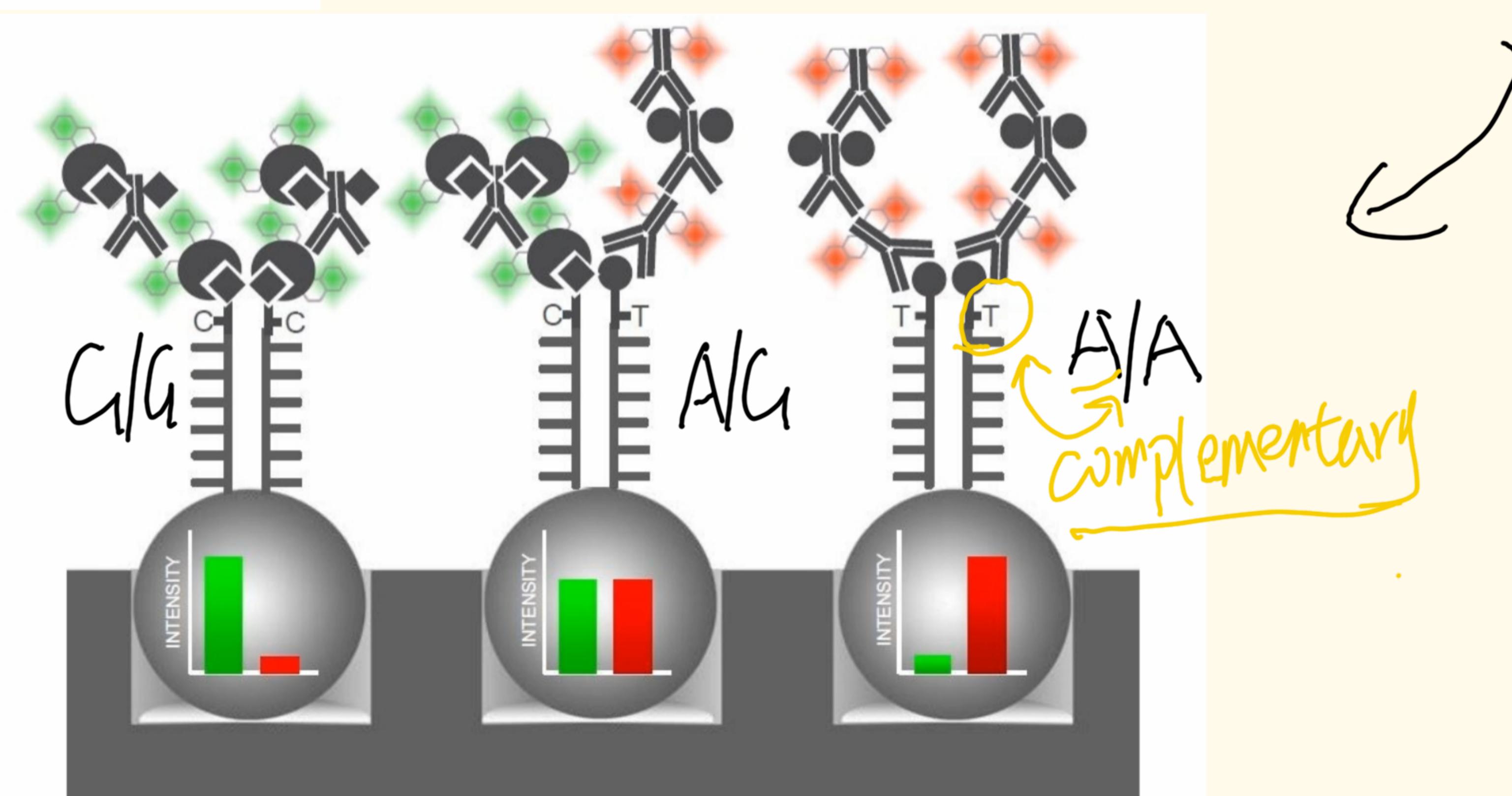
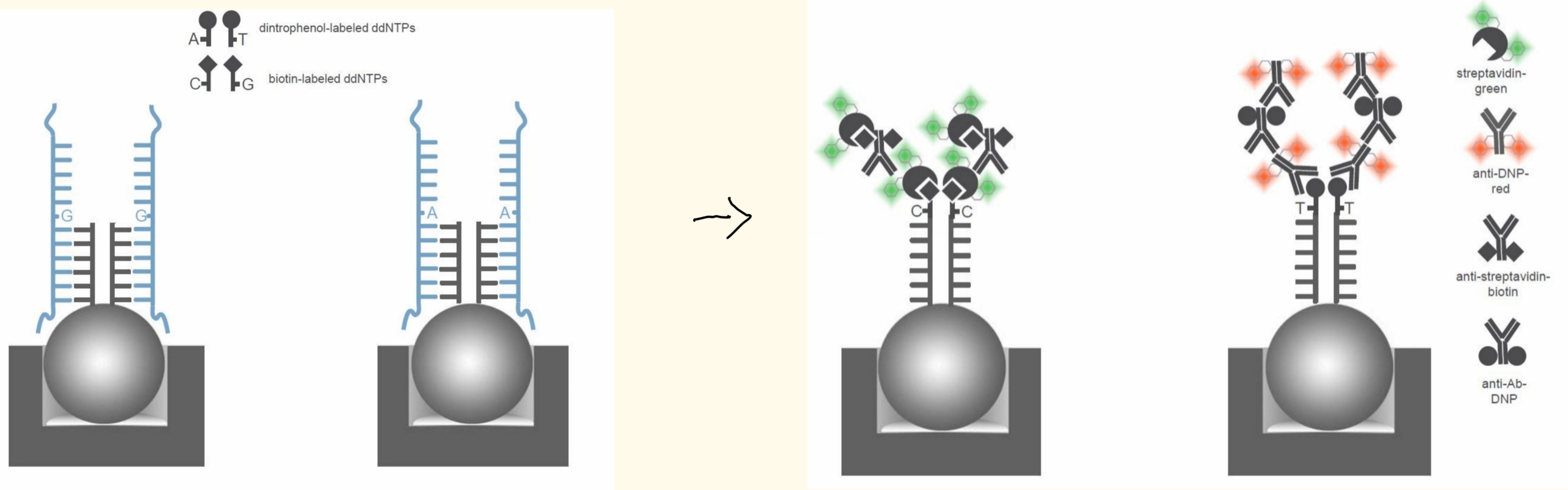


"*.dmap*" mapping file for a gene chip
 microzone → microbead → probe.
 (finished by company)



✓ function of probe
 to distinguish 4 base (A,T,G,C)
 Illumina biochip scanner: red and green
 A/T ← → G/C .

solution ①: A/C T/G A/G T/G different color.



Solution 2: A/T C/G, expanding → lighting

