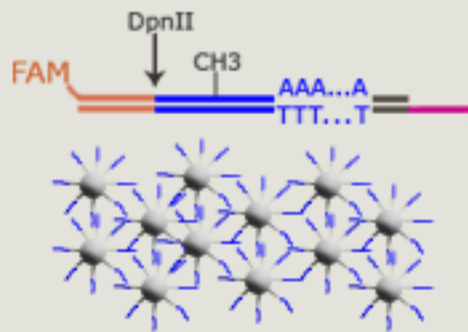
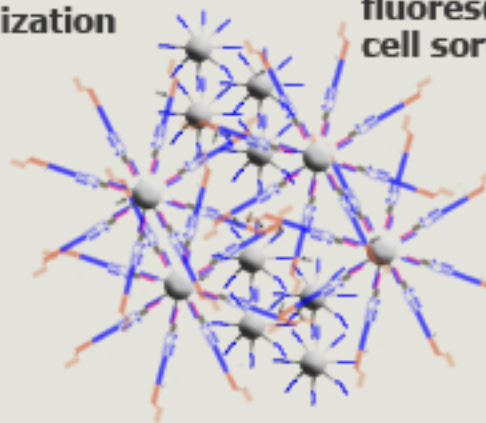


Massively Parallel Signature Sequencing (MPSS) II: sequencing

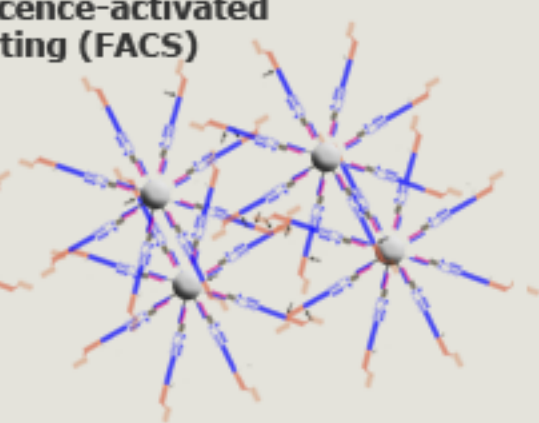
Beads loading



hybridization



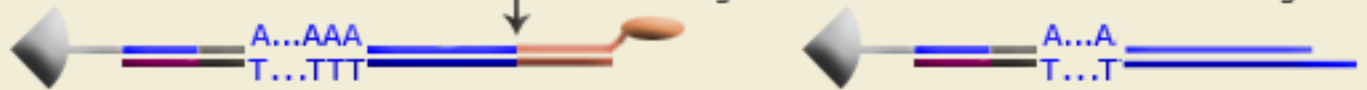
fluorescence-activated cell sorting (FACS)



Sequencing

DpnII

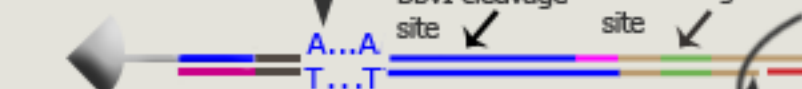
cDNA templates are initially cleaved by DpnII and the resulting ends are converted to 3-base overhangs



set of 1,024 encoded adaptors is added
complement adaptors are ligated



identity and ordering of nucleotides are read off by 16 decoder probes
that are hybridized one at a time



BbvI cleavage site

BbvI recognition site

16 cycles

fluorescent imaging

BbvI digest exposes next 4 nucleotides and shortens the template; the round is repeated;

5 rounds produce a ~16-20 nt signature sequence