

Seth Darst · RNA polymerase of E.coli

2.4.99

T7 vs. Ecoli vs. Yeast RNA polymerase

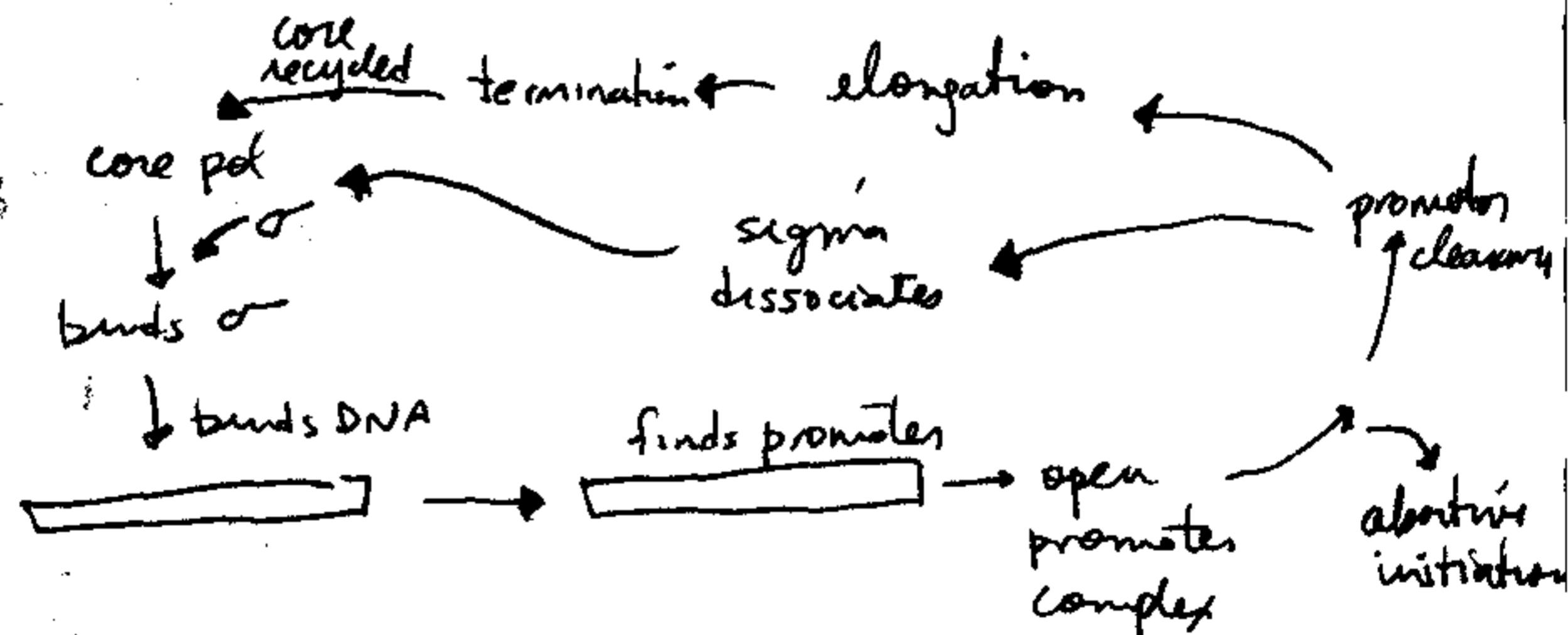
↓

single	~5-6	~10-15
subunit	subunit	subunit



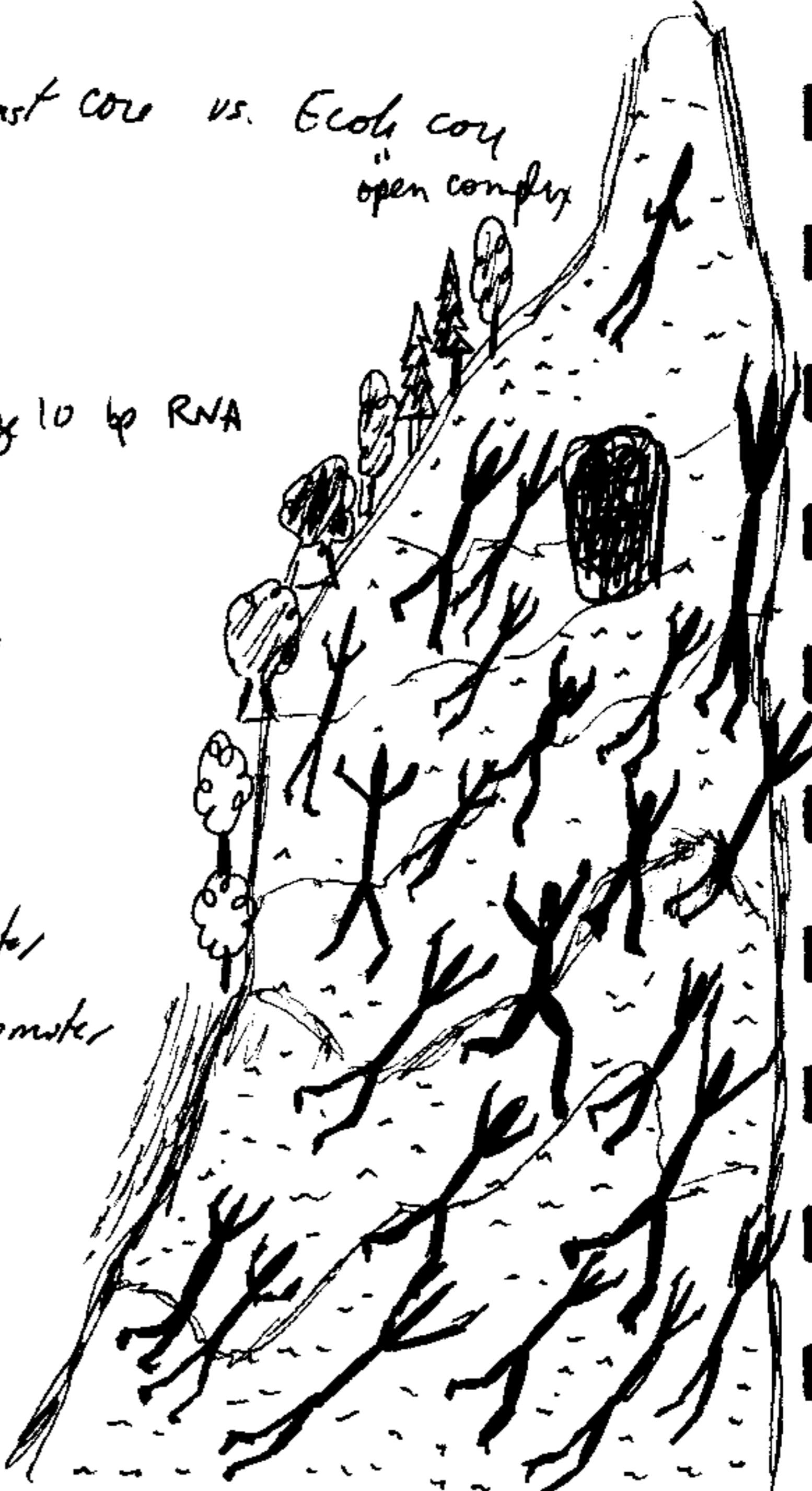
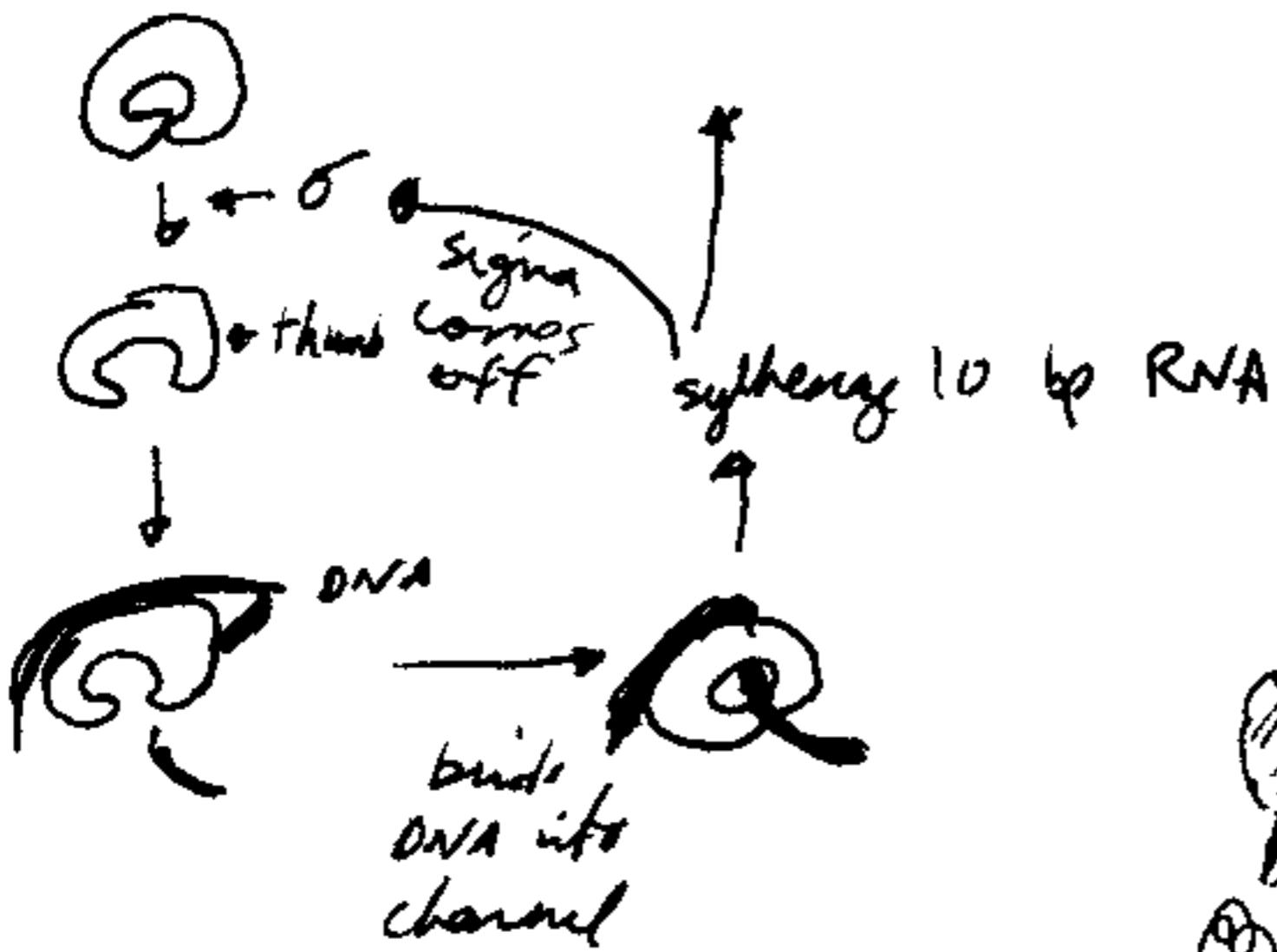
- Many X-tal structures of single subunit RNAPols
- As well as of similar proteins (e.g. Klenow)
- Many subunits are homologous

75



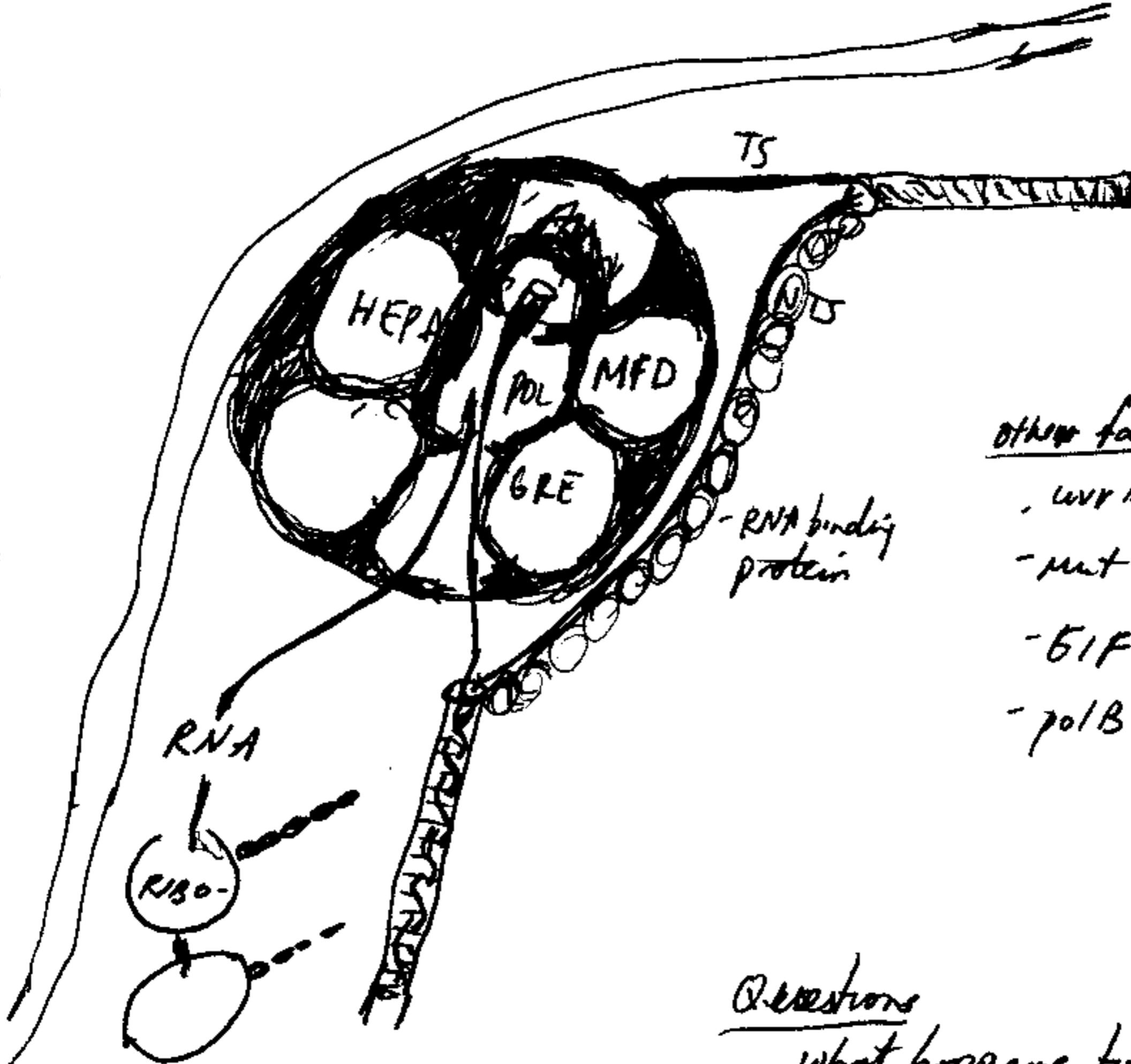
2D X-tab

Ecoli holoenzyme vs. Yeast core vs. Ecoli core



Sigma Factor

- a sigma ~~reading~~ factor
- .. required for promoter binding



other factors

- wrA, B, C
- mutL, S
- GTF4A
- polB = repair pol

Questions

- what happens to RNA pol
- what happens to NTS
- O factor?
- does anything bind NTS?
- how re-syn. T5 w/o moving
- how attach to membranes
- ~, DNA packaged
- does translation matter