

Things!

Ed Egelmann - U.Va - Regarding RecA

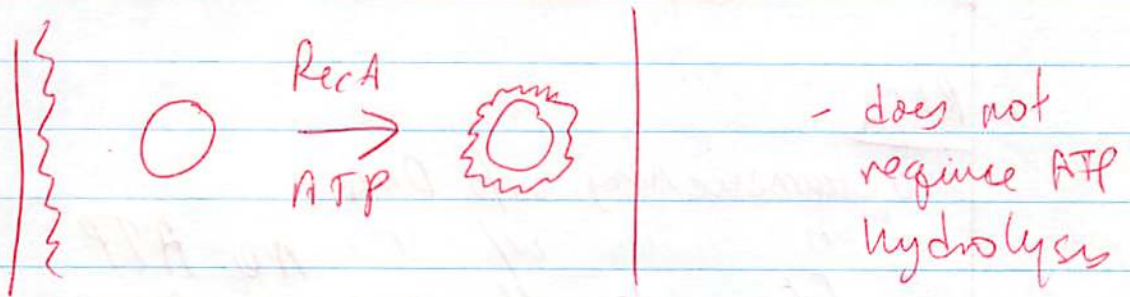
Filaments

- formed by RecA on DNA
- UvsX also ~~also~~ forms filaments
- Rada 100
- Rad51 100

DNA is stretched 50% in filaments

DNA is untwisted too

Electron tomography



New ideas

- = coupling of twist/pitch may be due to DNA helicity
- subunit-subunit interface is not conserved

Two discrete states; ATP + ADP

ATP binding core similar to F1-ATPase

what is conserved is what
lies at subunit-subunit interface

no DMCI helical filaments -
suggests it's octameric ring

lumen RAD51 also forms octameric ring

RADA

octameric ring w/o DNA

" " w/ " no ATP
filaments " DNA + ATP