

Things!

Ed Egelmann - U.Va - Regarding RecA

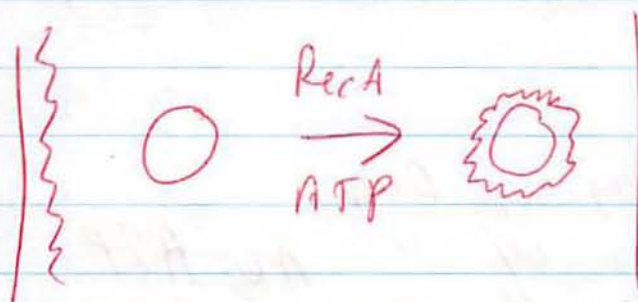
Filaments

- formed by RecA on DNA
- UvsX also ~~also~~ forms filaments
- RadA too
- Rad51 too

DNA is stretched 50% in filaments

DNA is untwisted too

Electron tomography



- does not require ATP hydrolysis

New ideas

- complexity 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

human RAD51 also forms octameric ring

RADA

octameric ring w/o DNA

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