













Packaging proteins discovered by DNase I digests of nuclei

- 1. Isolate nuclei
- 2. Partial digest with DNase I (nonspecific endonuclease)
- 3. Run agarose gel.
- 4. Result: Ladder of multiples of 150-200 bp

















































DNA packaging summary Problem is packaging Levels of chromatin structure (nucleosomes, 30-nm fiber, loops, bands) Histone code marks active and inactive sequences. DNA elements for chromosome structure include (ARS), TEL and CEN. CEN promotes the assembly of the kinetochore, a giant protein complex that attaches the chromosome to the spindle at division. YACs = CEN, TEL, ARS + >50 Kb.