

Seminar on

PACKAGING OF GENETIC MATERIAL
IN
EUKARYOTES

By

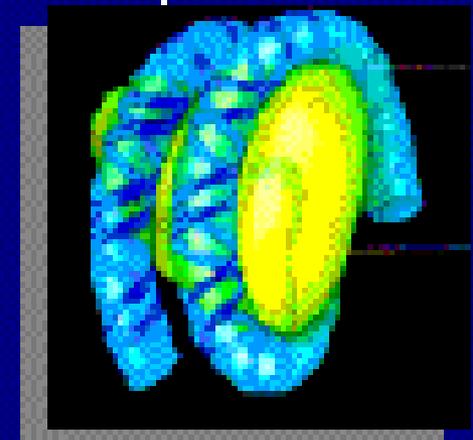
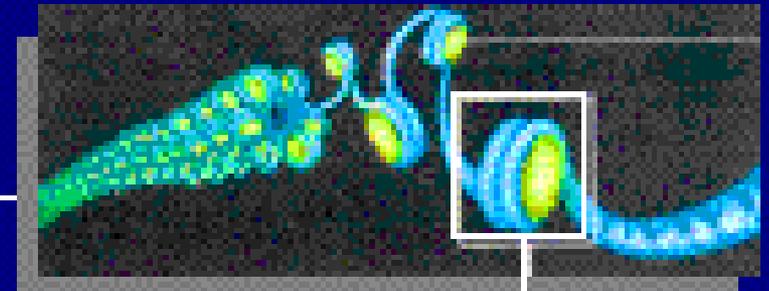
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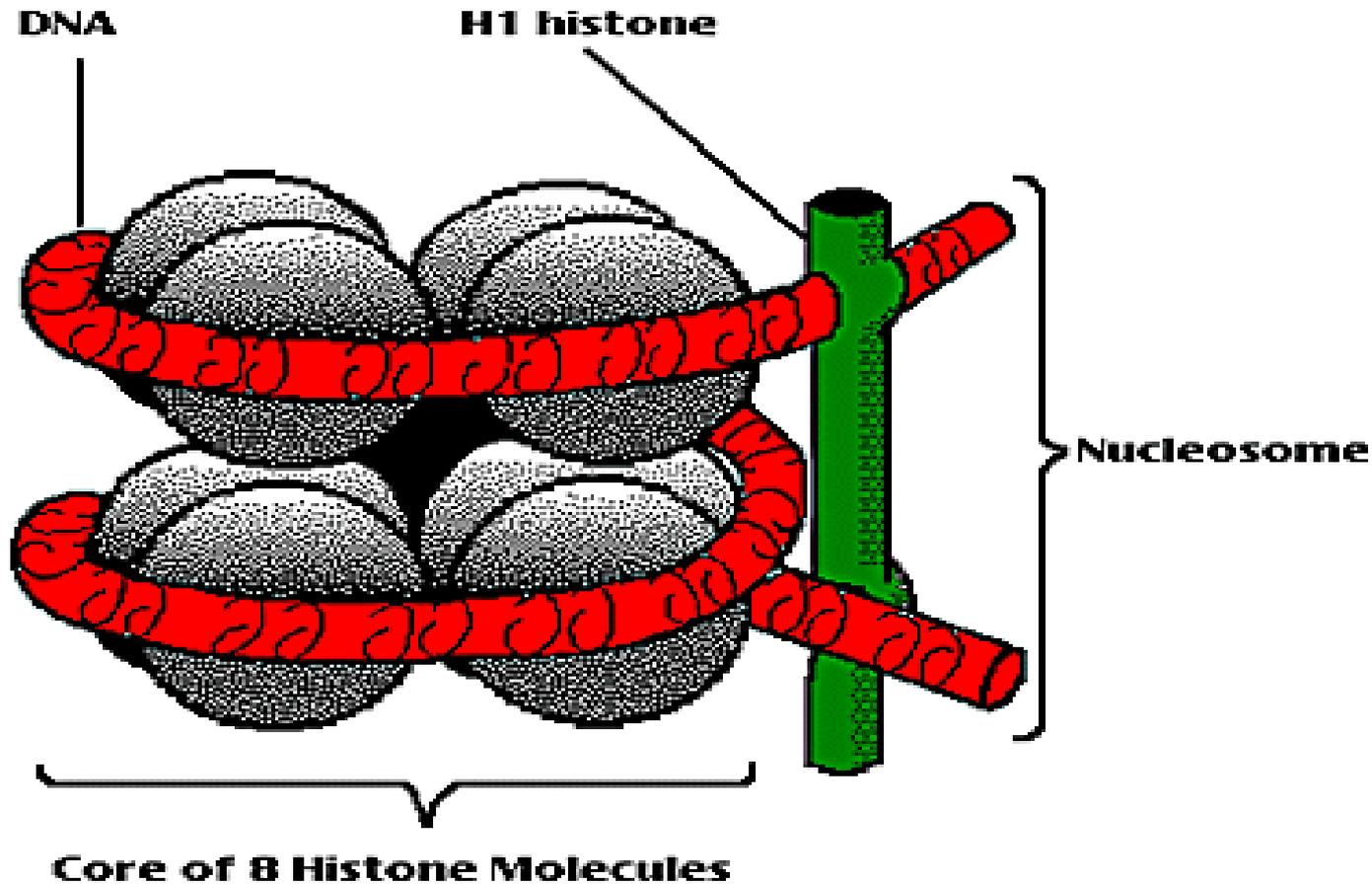
- ▣ INTRODUCTION
- ▣ SCAFFOLD COMPLEX
- ▣ CHROMATID
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- ▣ THE NUCLEOSOME
 - a) CORE PARTICLE
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CHROMOSOMES
consist of
DNA and Protein

THE NUCLEOSOME

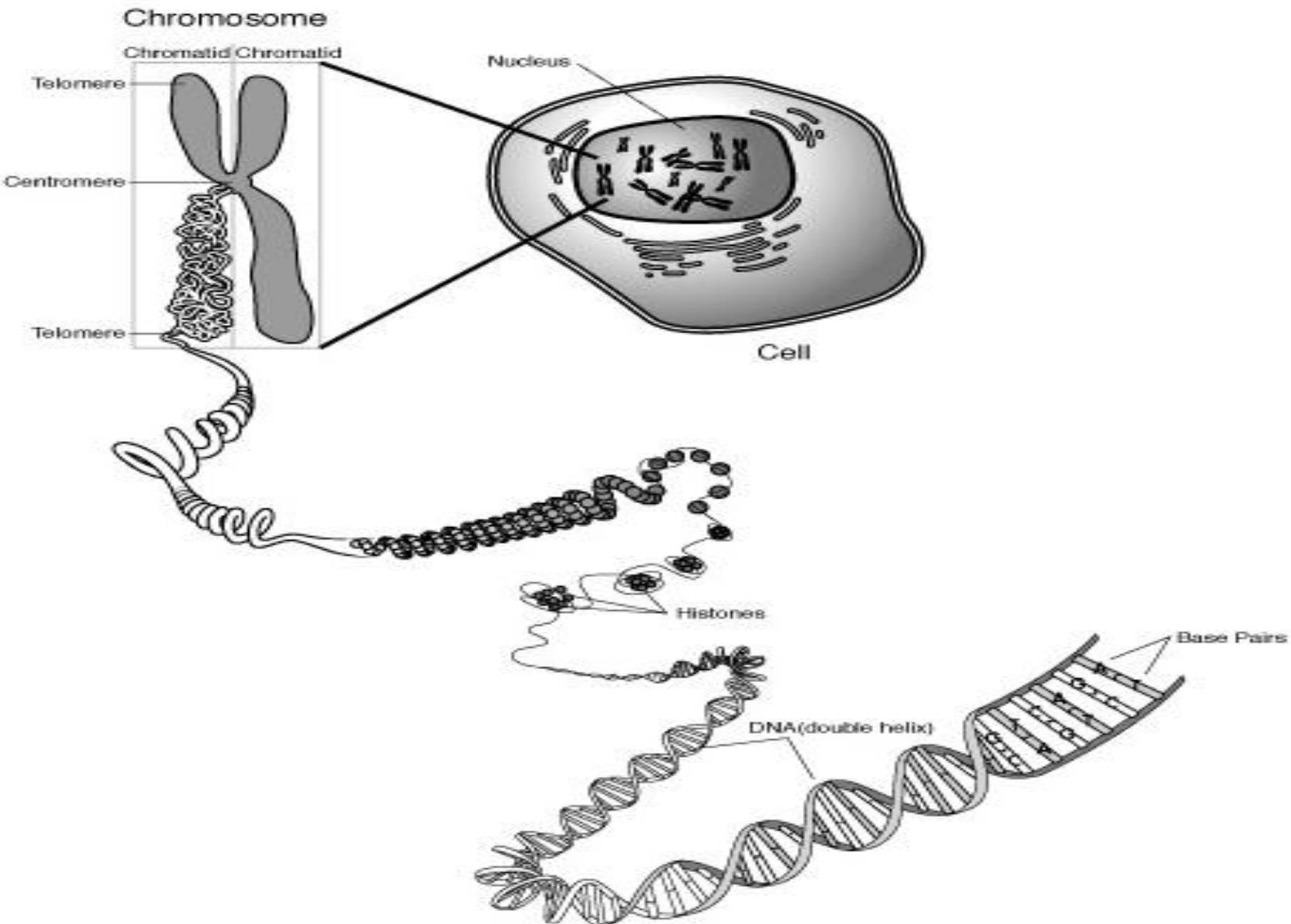
a} core particals b} chromatosome c} histone



Nucleosome

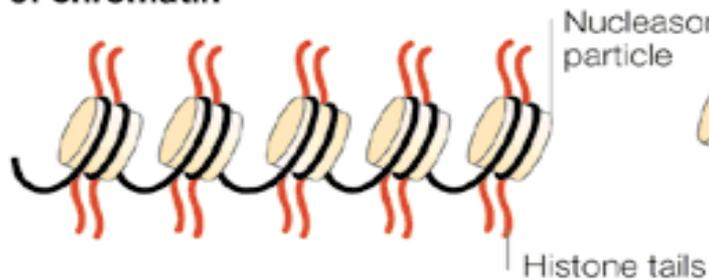
<http://www.accessexcellence.com/AB/GG/nucleosome.gif>

DNA-HISTONES INTERACTIONS

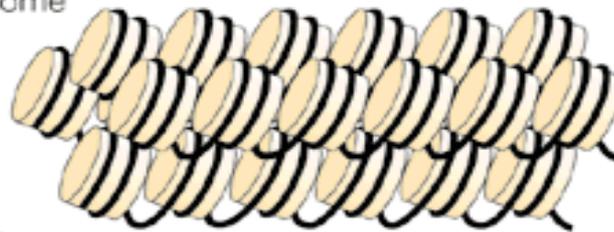


OVERVIEW OF PACKAGING HISTONE PROTEIN

Beads-on-a-string form of chromatin



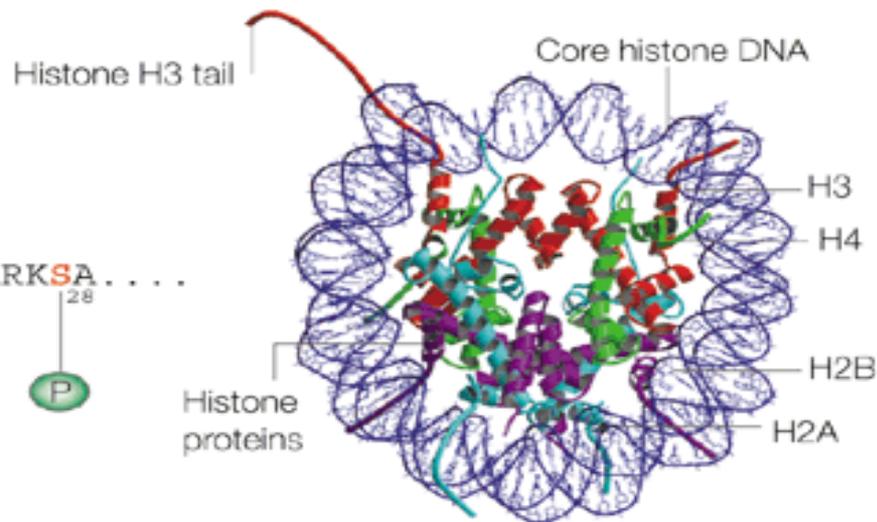
Packaged nucleosomes



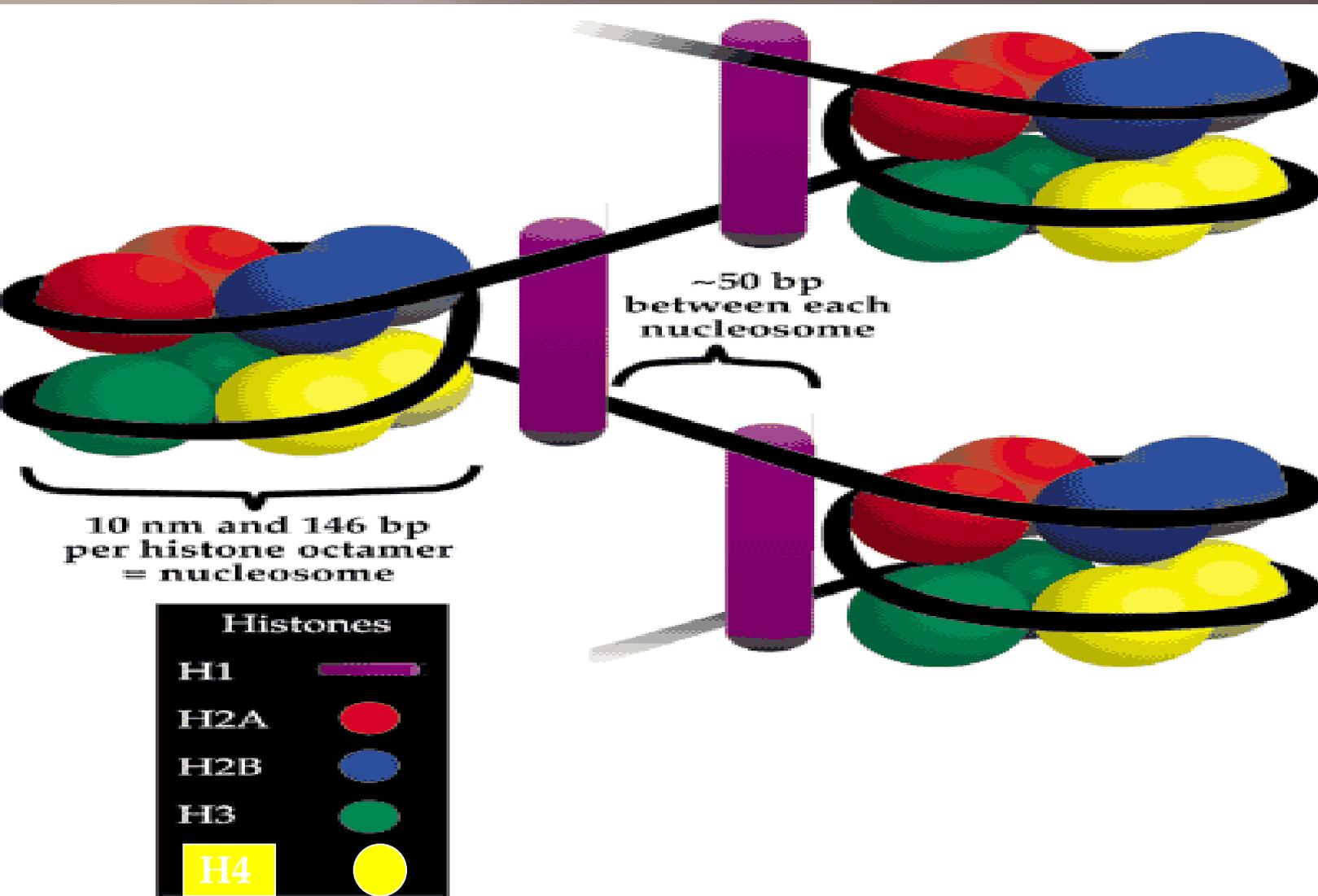
Histone H3 tail



Nucleosome particle



ORGANIZATION OF HISTONE OCTAMER

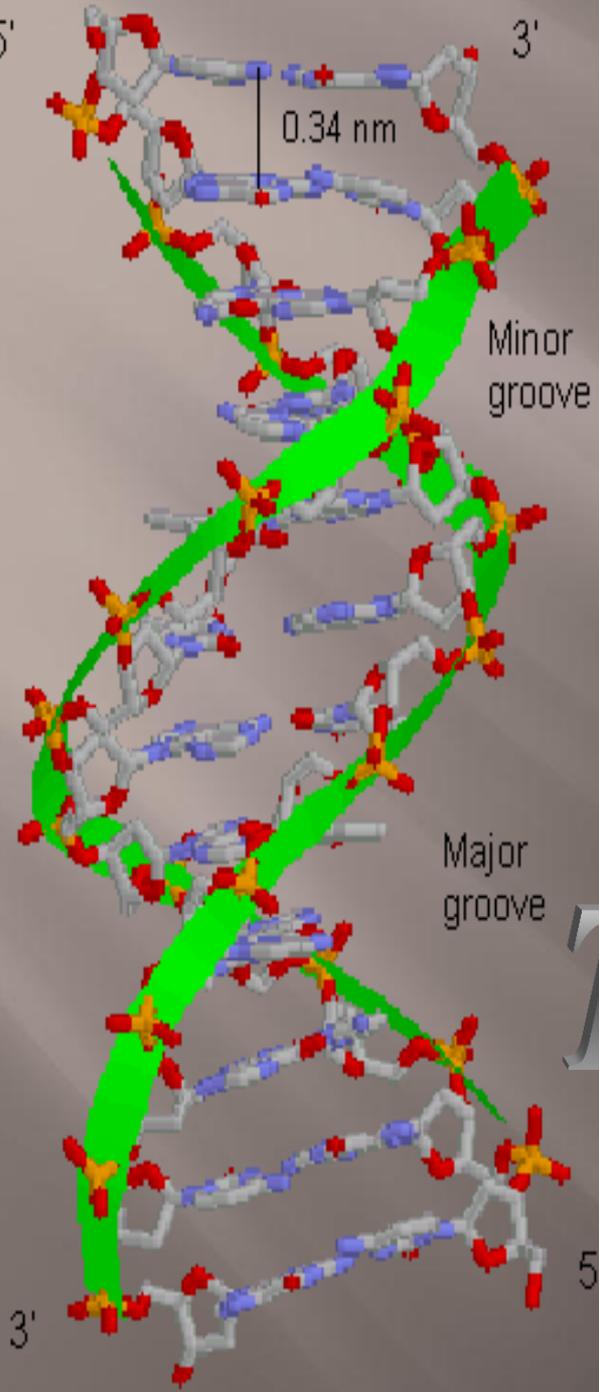


conclusion

- ▣ The DNA is the only thing which undergoes condensation by forming nucleosome units and becomes more and more compact and very largest and lengthy DNA made possible to accommodate into a very small space of nucleus.

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THANKING

YOU