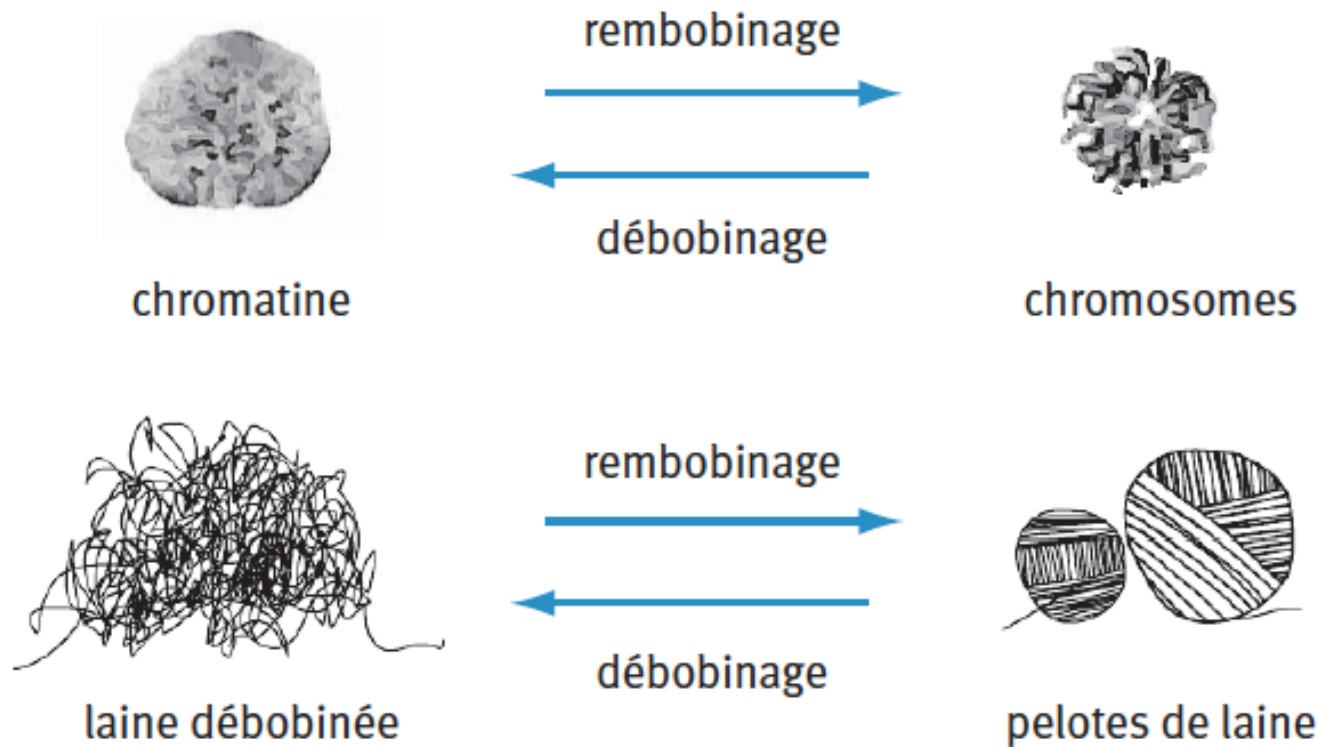


Présentation du concept de chromatine ouverte ou compacte au lycée (niveau secondaire).

Document 1 Une même matière sous deux formes

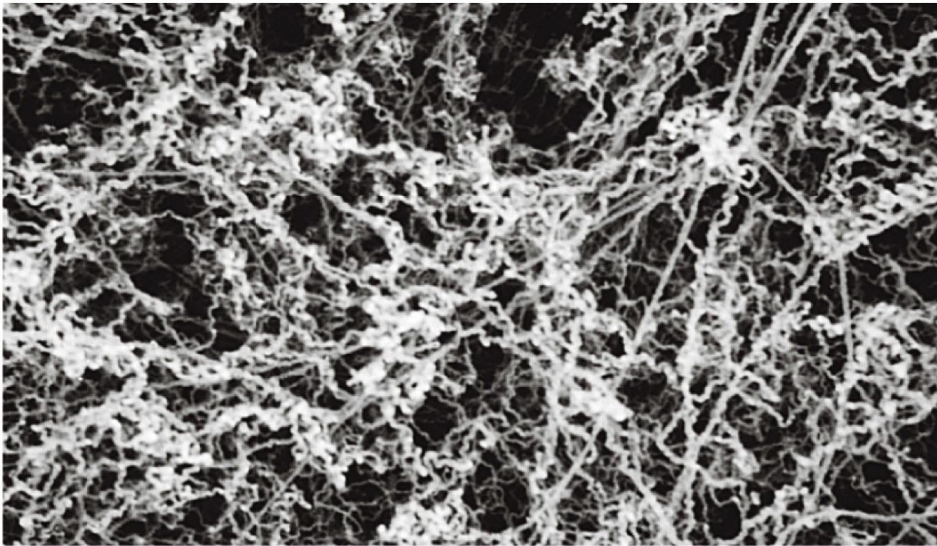


Comme la pelote est de la laine soigneusement enroulée, le chromosome est de la chromatine soigneusement enroulée.

L'information génétique

pendant l'interphase

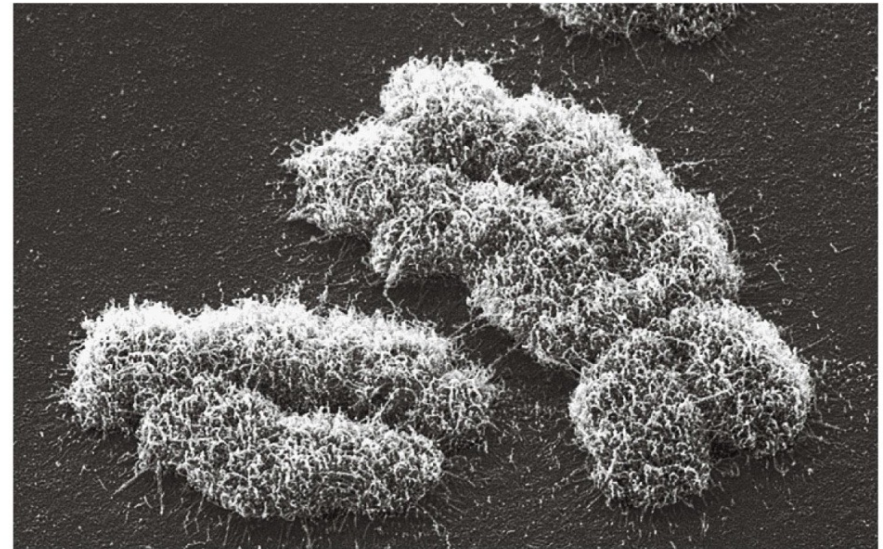
(a)



Chromatine

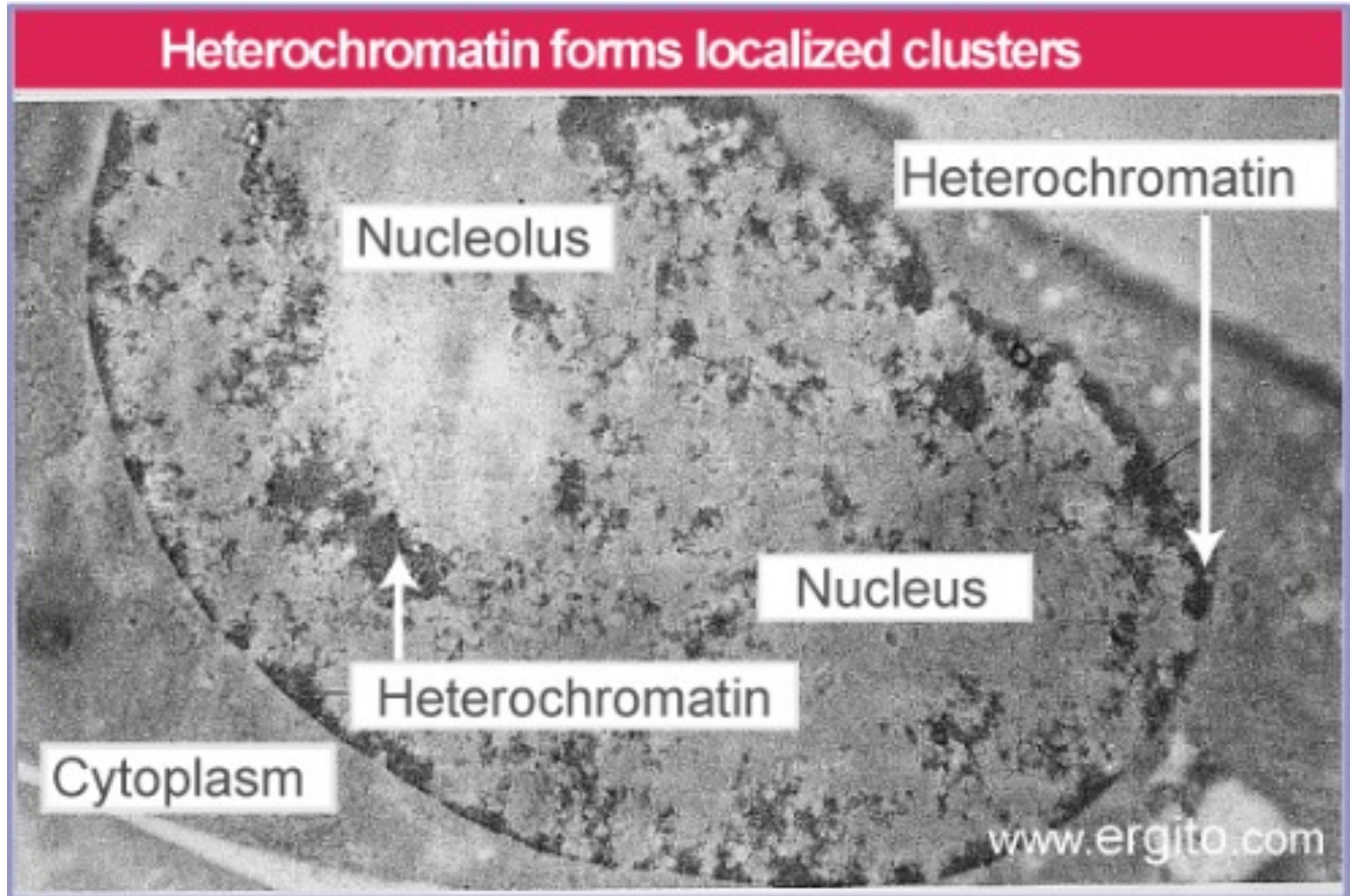
pendant la mitose
(métaphase)

(b)

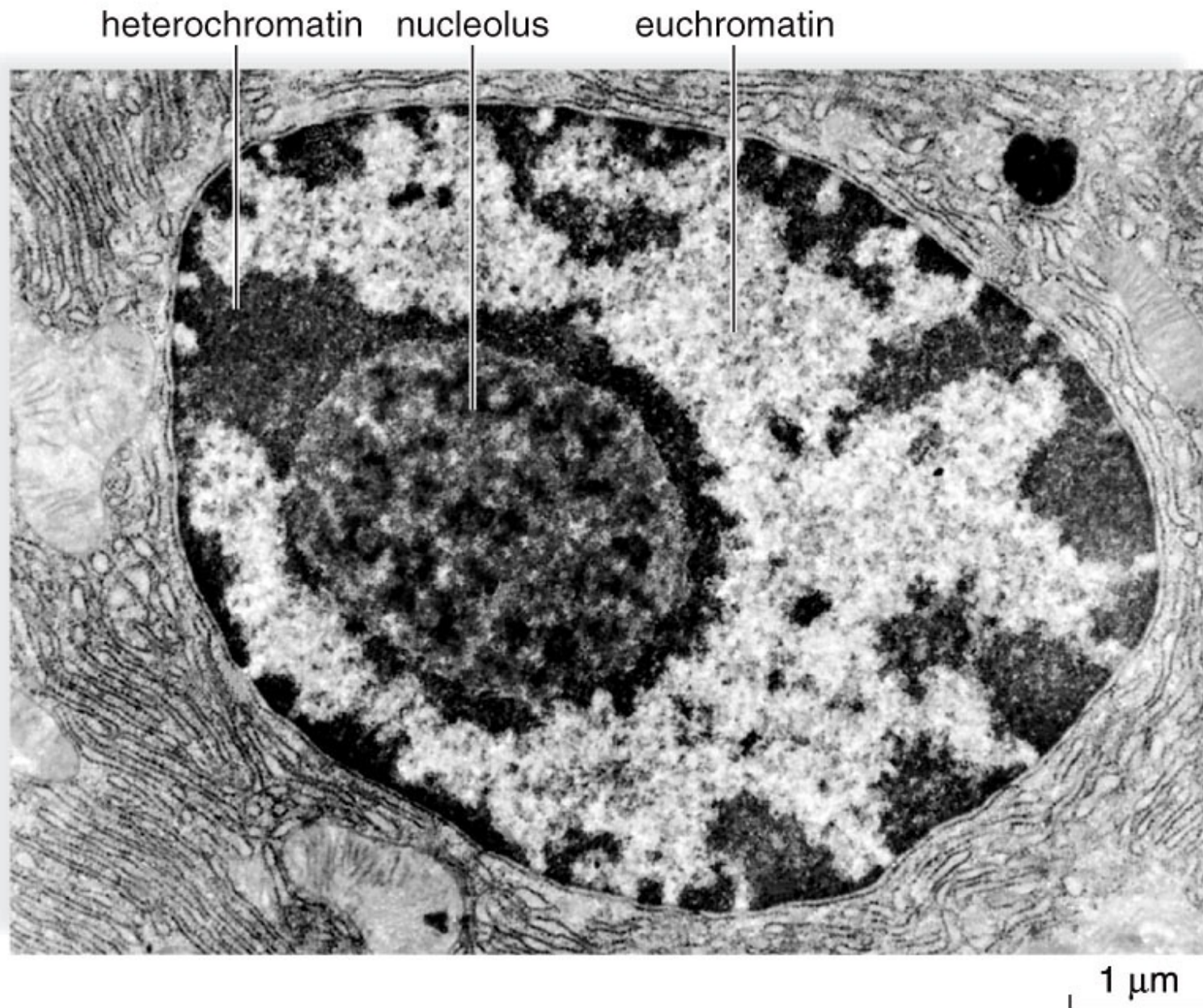


Chromosomes

Cellule en interphase: le contenu du noyau apparait hétérogène.

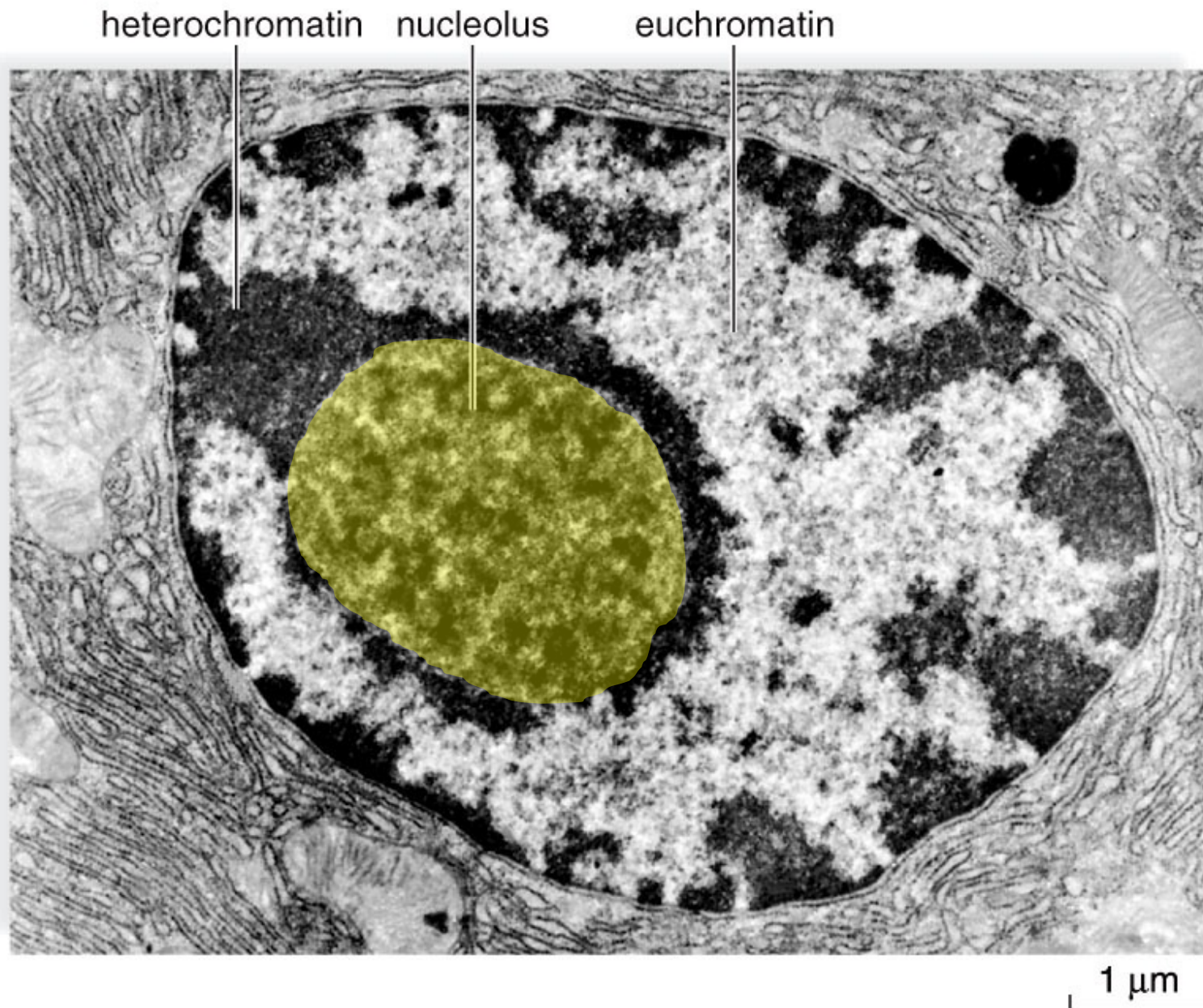


Nuclear content appears heterogenous :

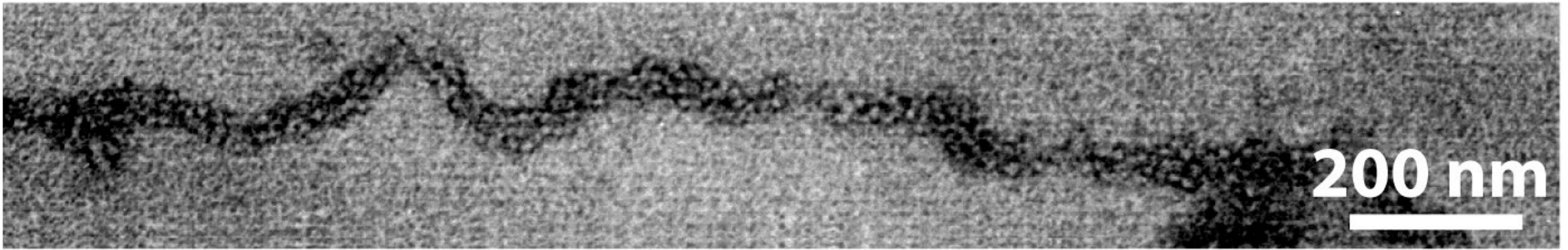


b. Darkly-stained heterochromatin and lightly-stained euchromatin

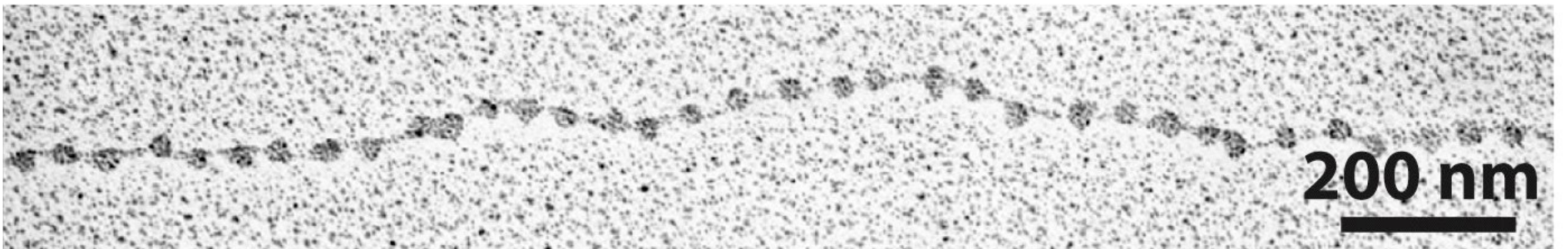
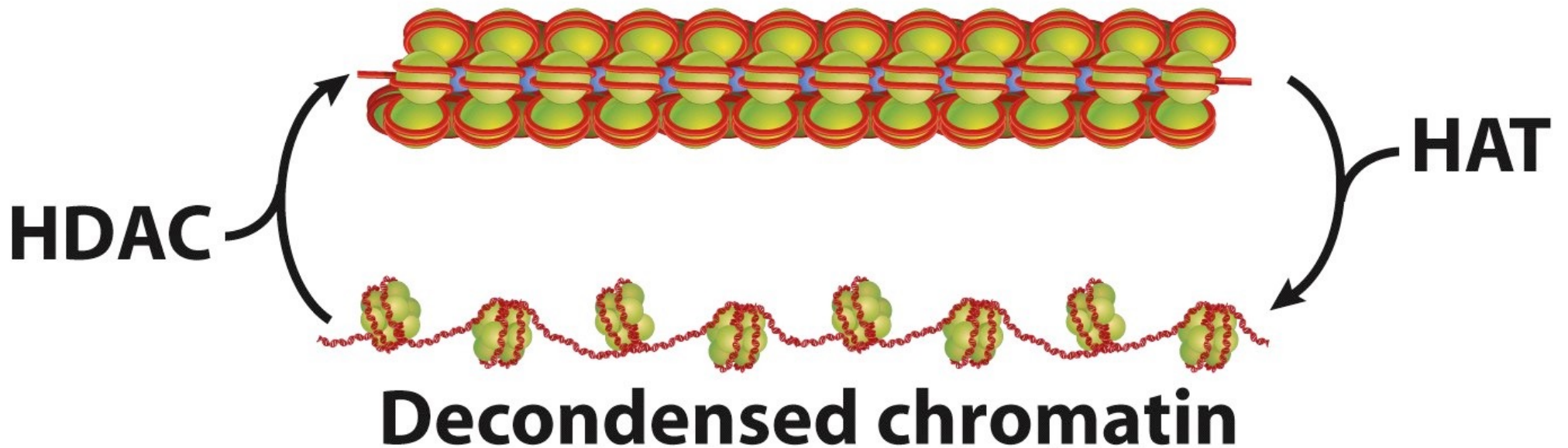
Nuclear content appears heterogenous :



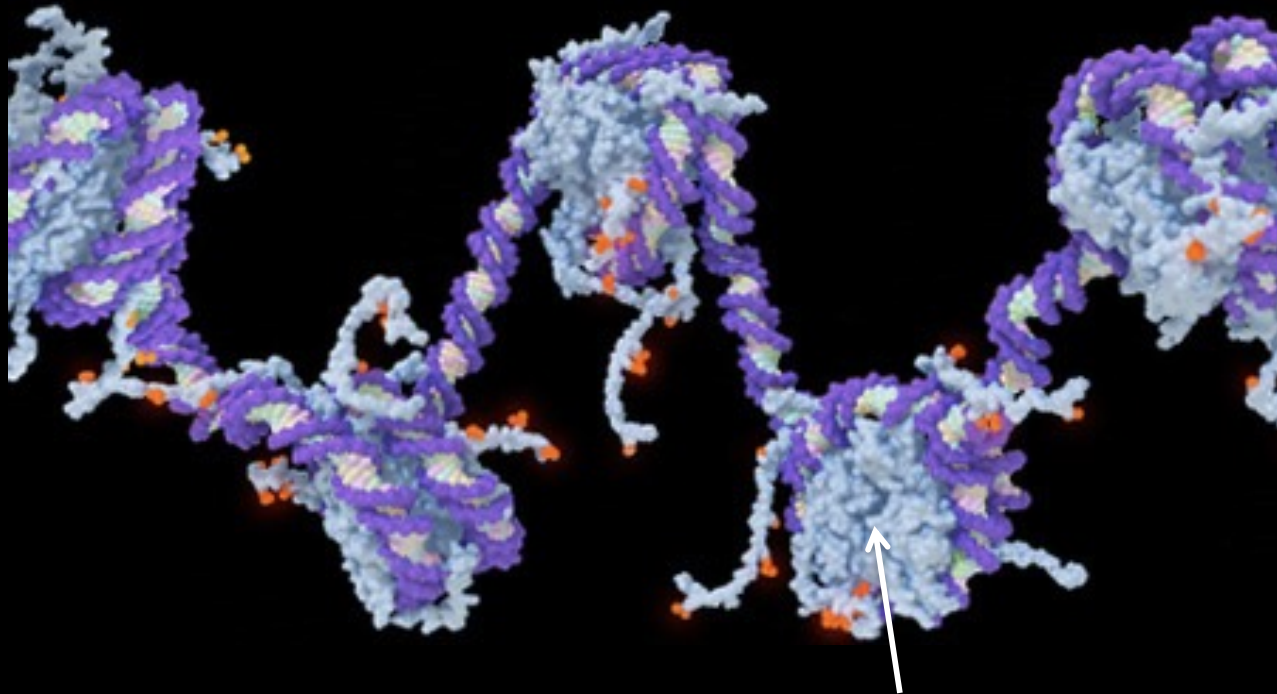
b. Darkly-stained heterochromatin and lightly-stained euchromatin



Condensed chromatin



Représentation 3-D réaliste :

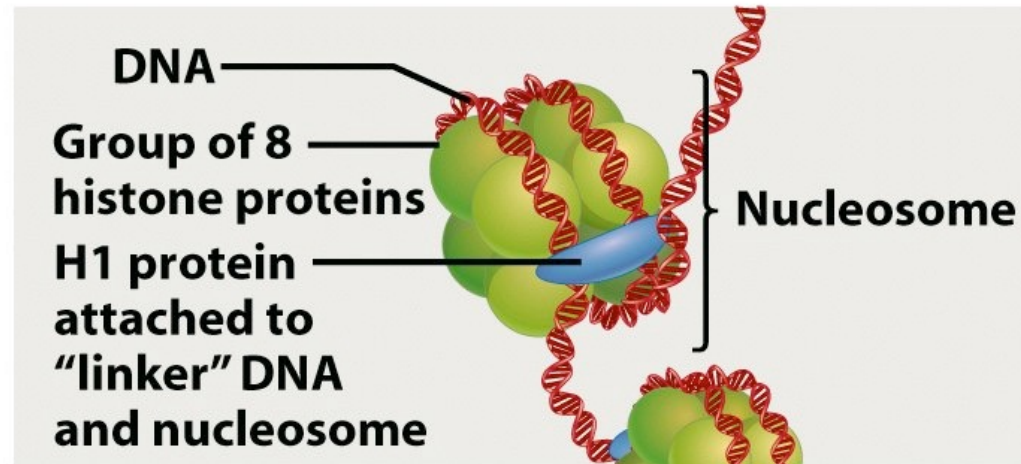


Un **nucléosome** est
un cylindre de 11nm
de diamètre et 6 nm
de hauteur.

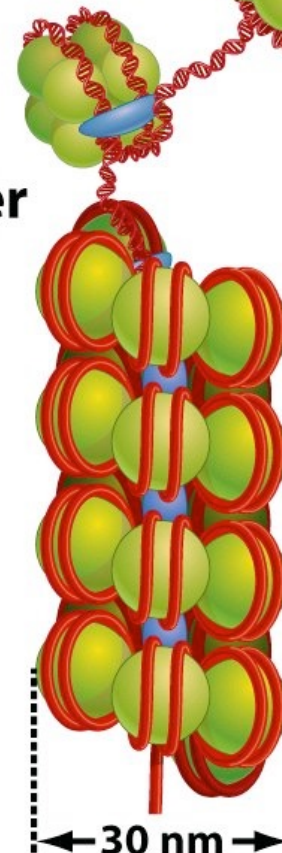
(b) Nucleosome structure

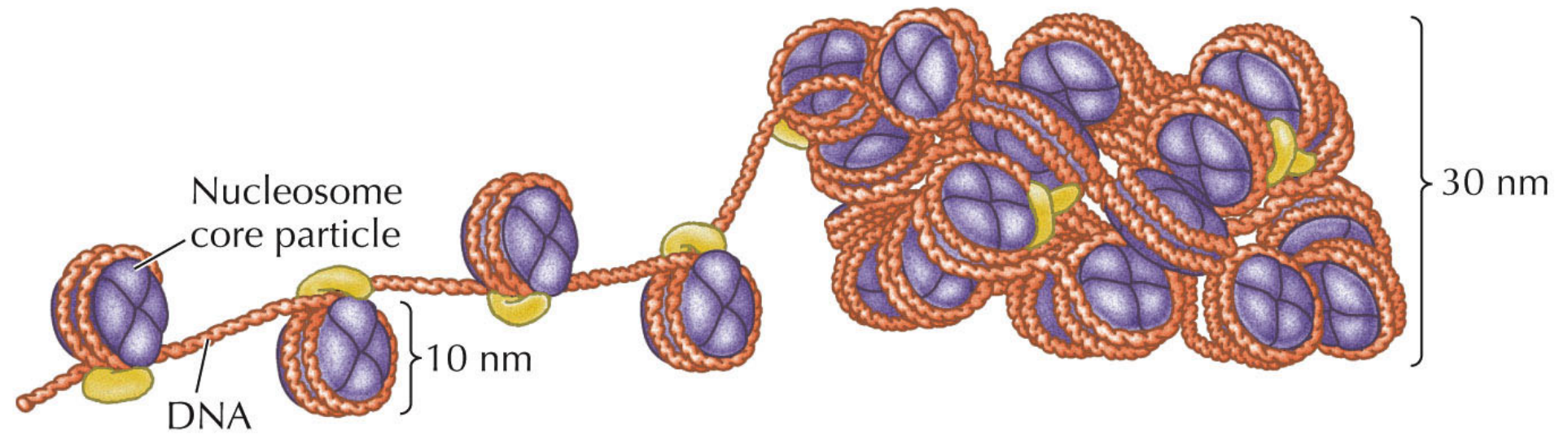
Rôle de l'histone H1 :

- ne fait pas partie des nucléosomes
- rapproche les nucléosomes

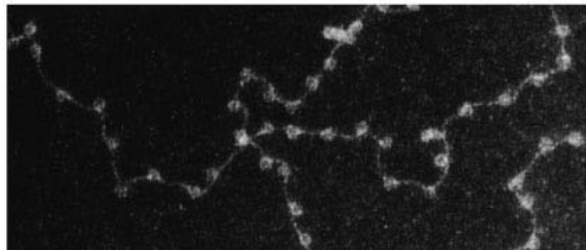


(c) 30-Nanometer fiber





10-nm fiber

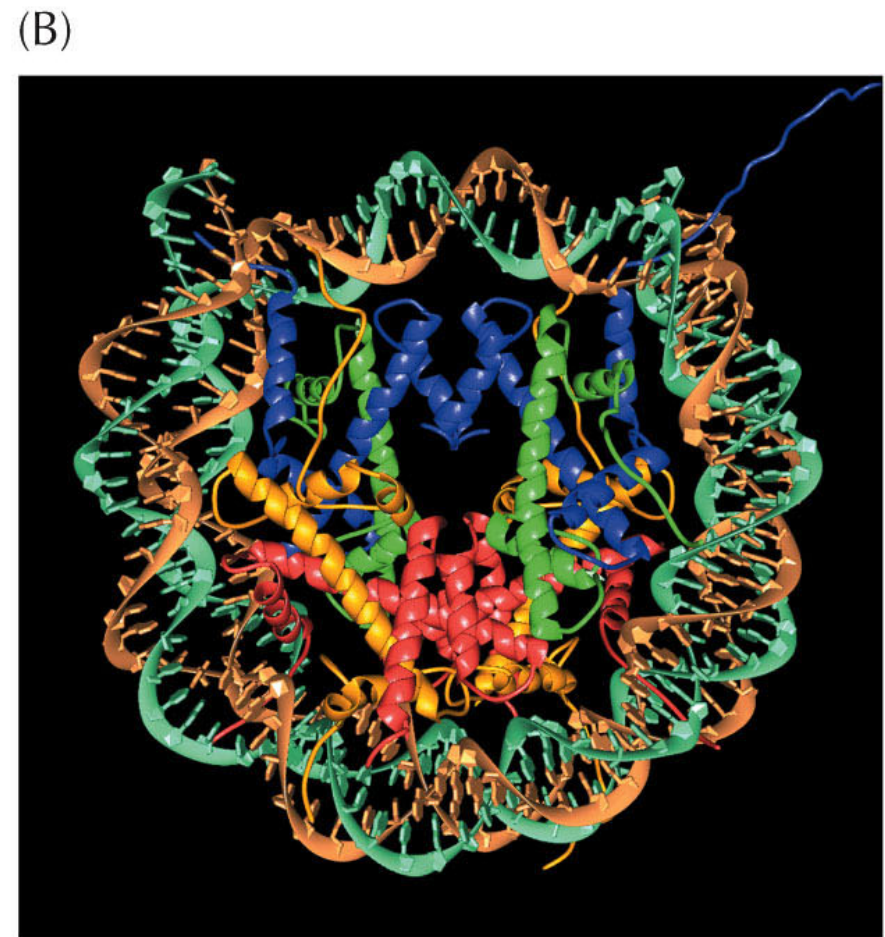
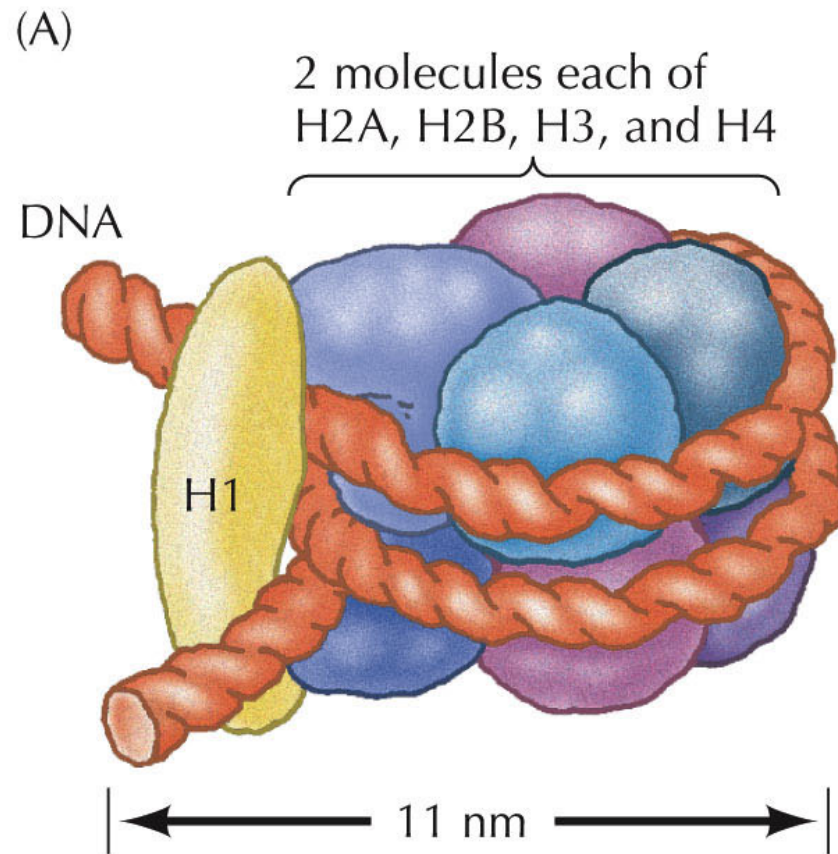


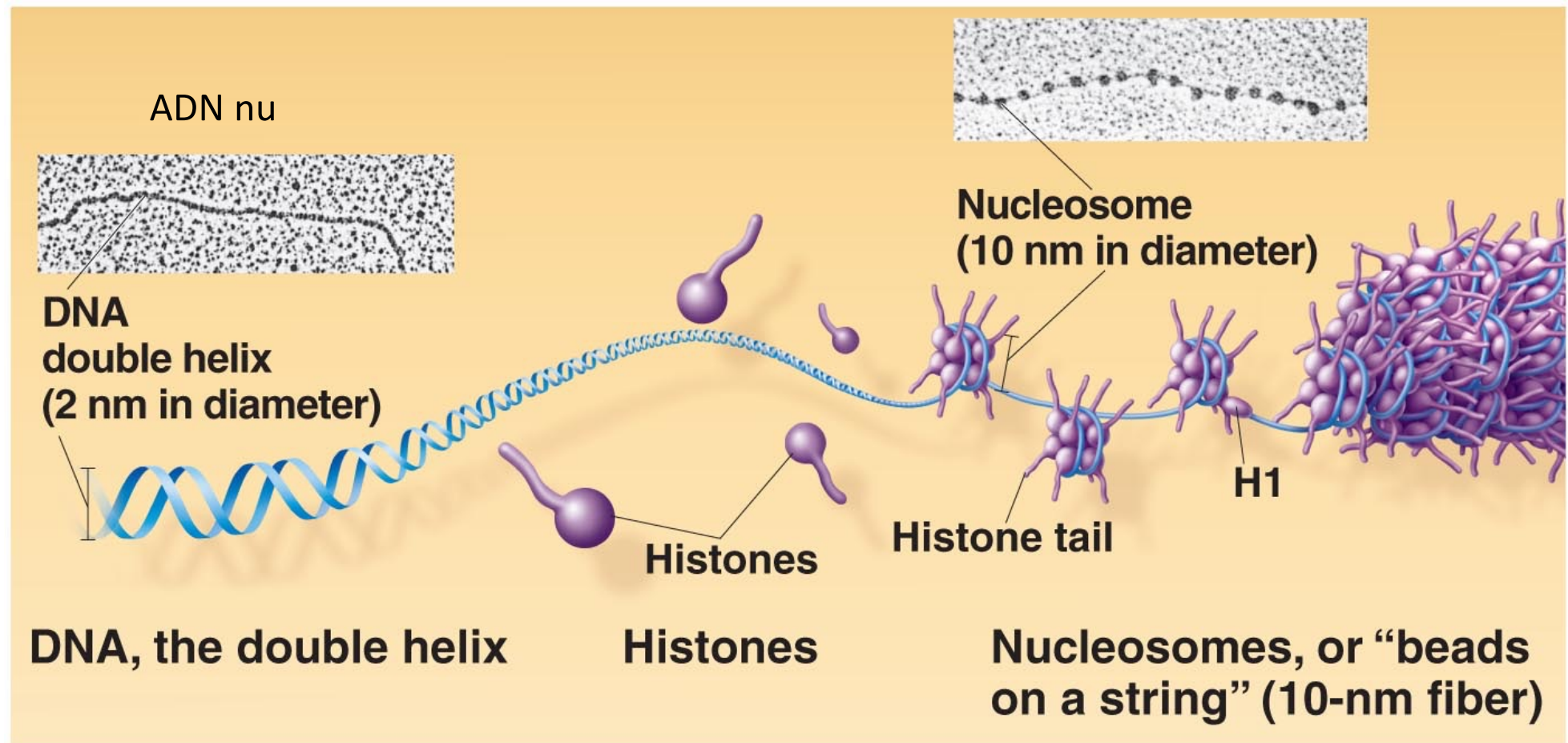
100 nm

30-nm fiber



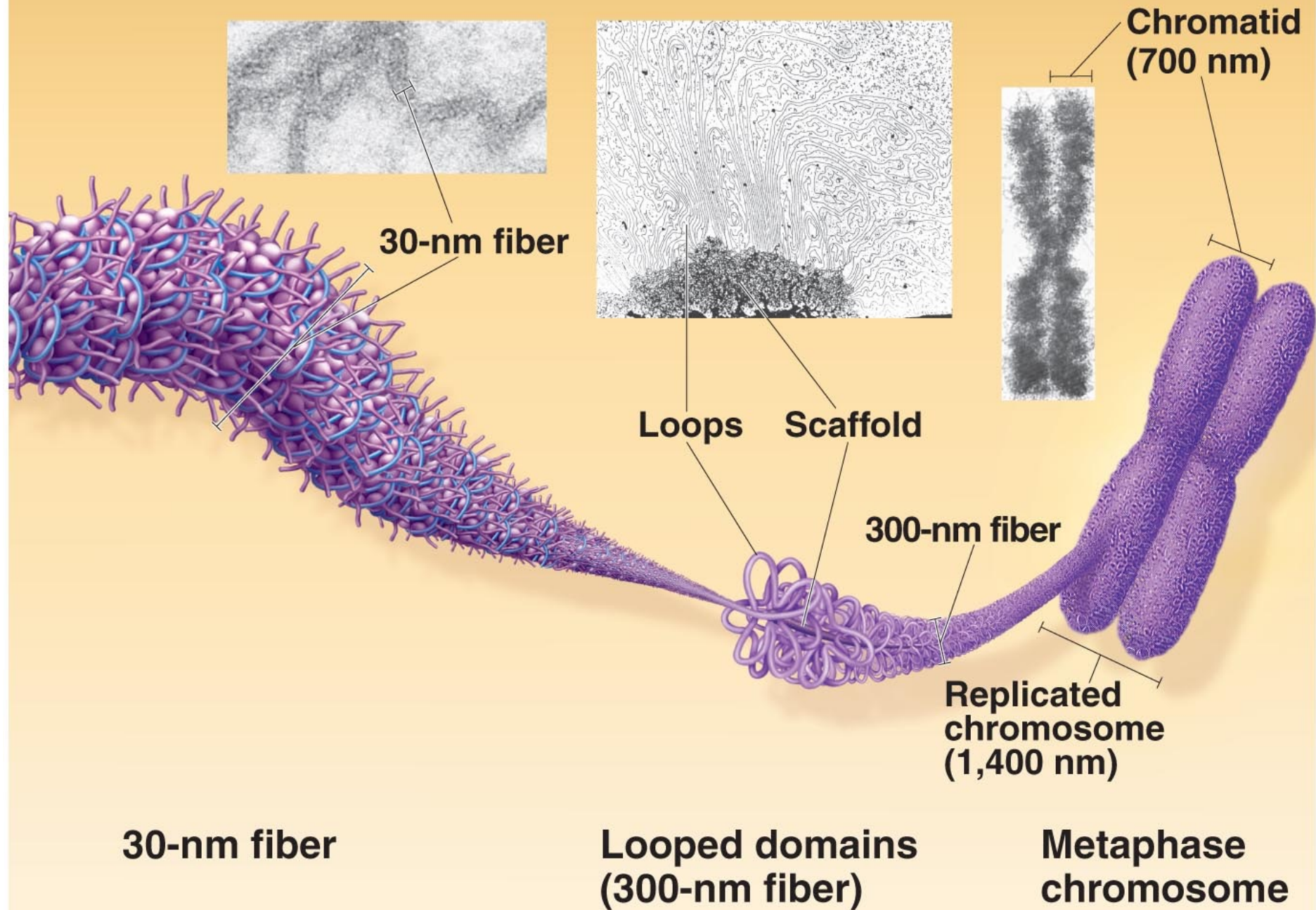
100 nm





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Fig 16.21



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Fig 16.21

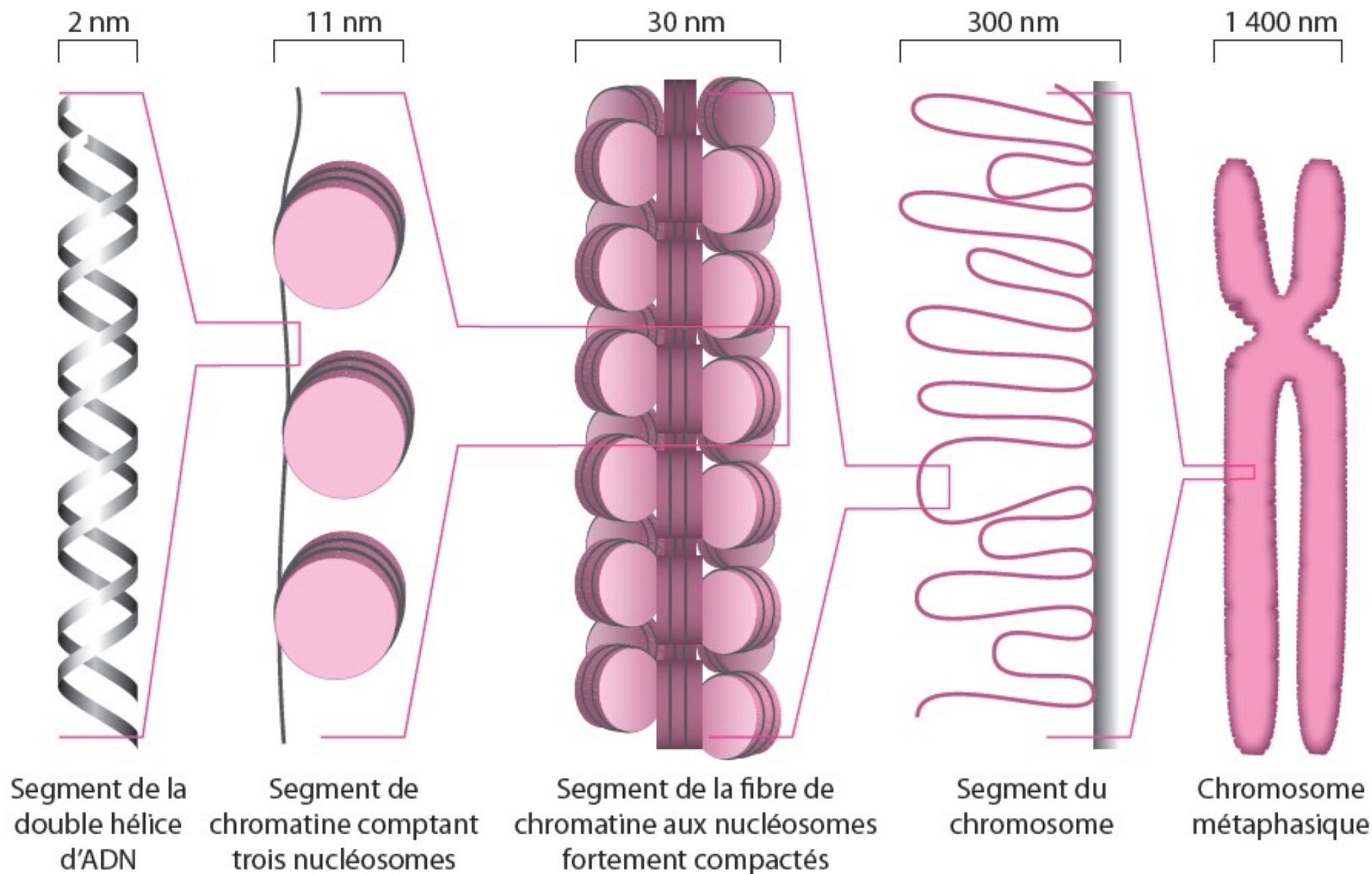


Figure 5-B – L'ADN présente des niveaux différents de condensation entre la chromatine du noyau interphasique et la chromatide d'un chromosome métaphasique.