Cours 3-Variation du volume au cours du cycle cellulaire

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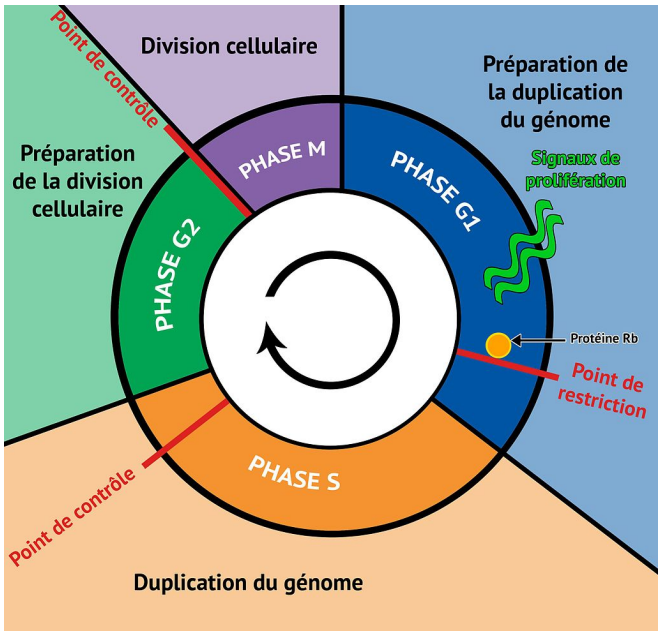
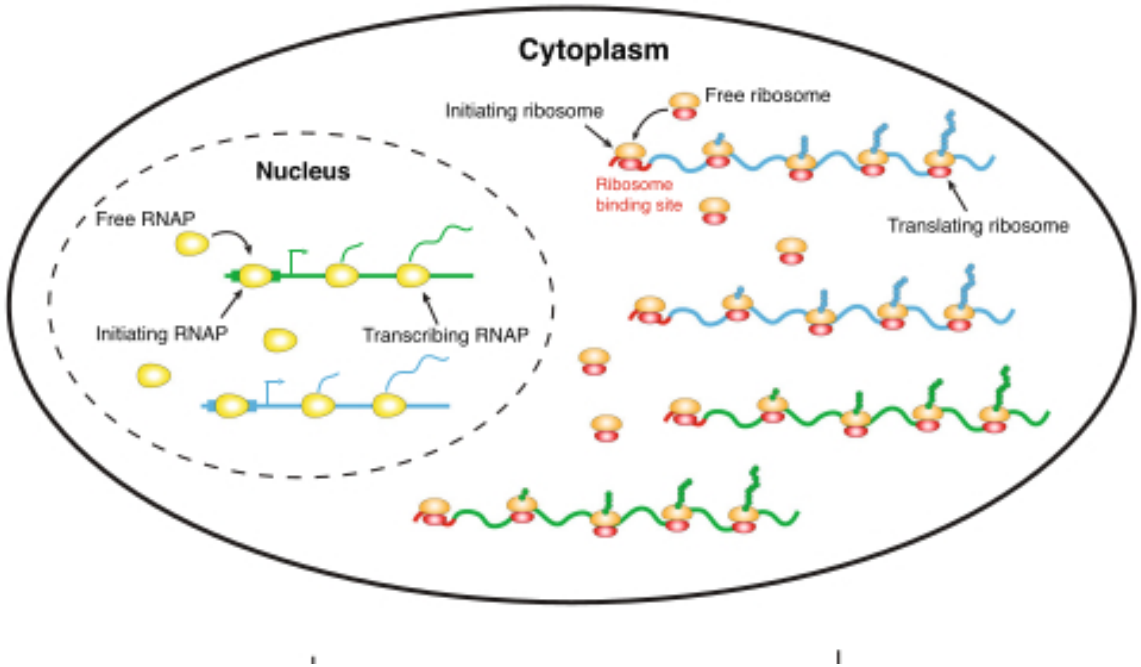
Cours 3, Collège de France, 19 février 2024

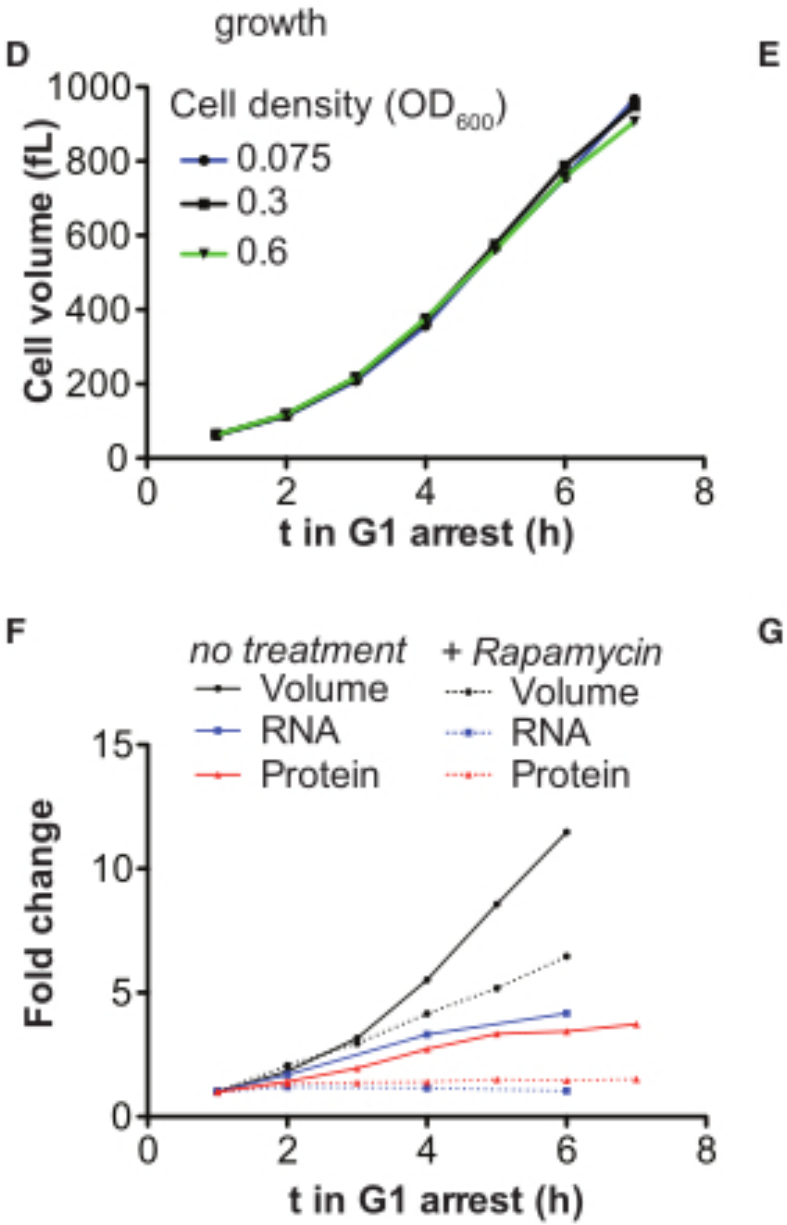
Traduction et transcription



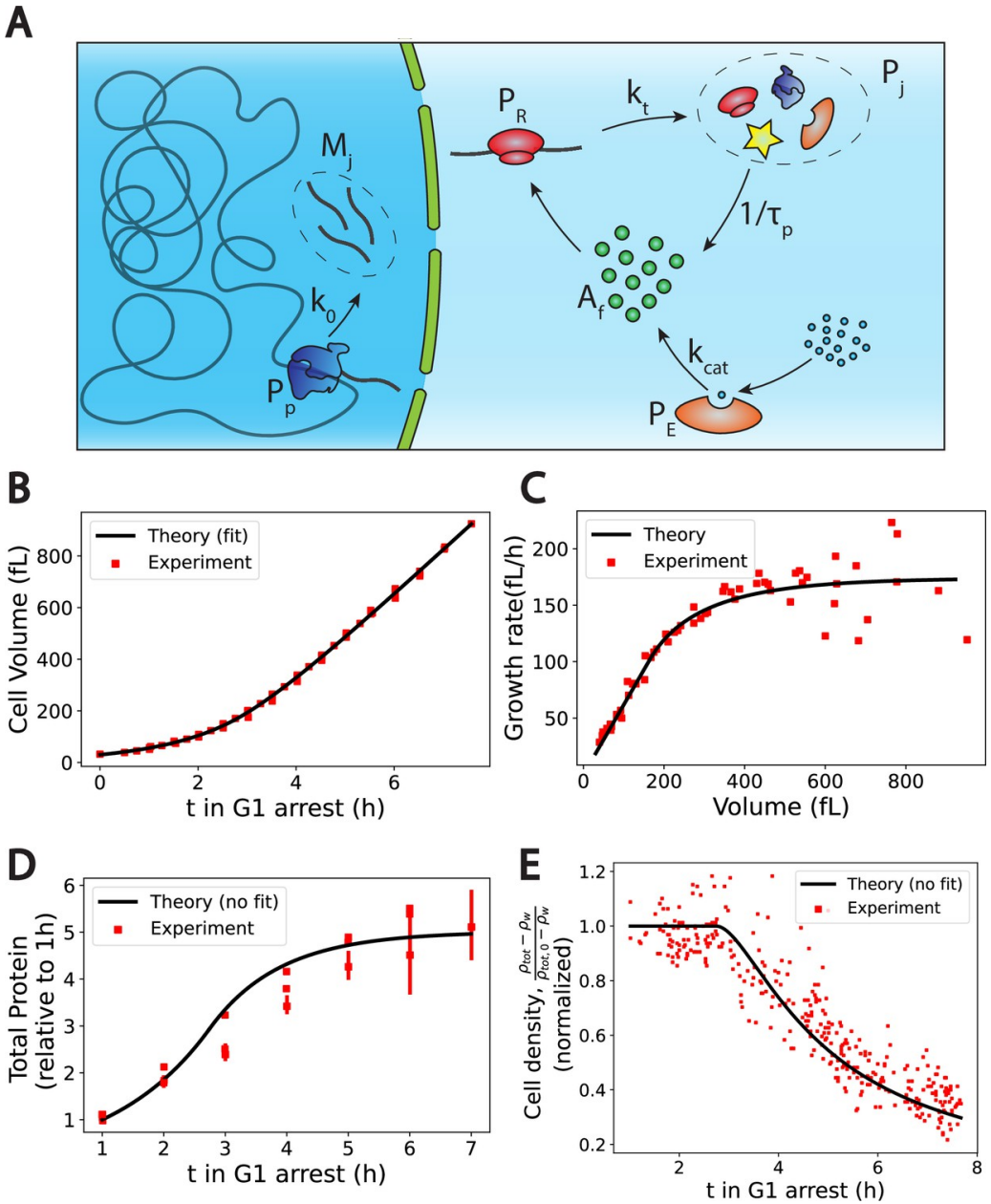


Wang and Li

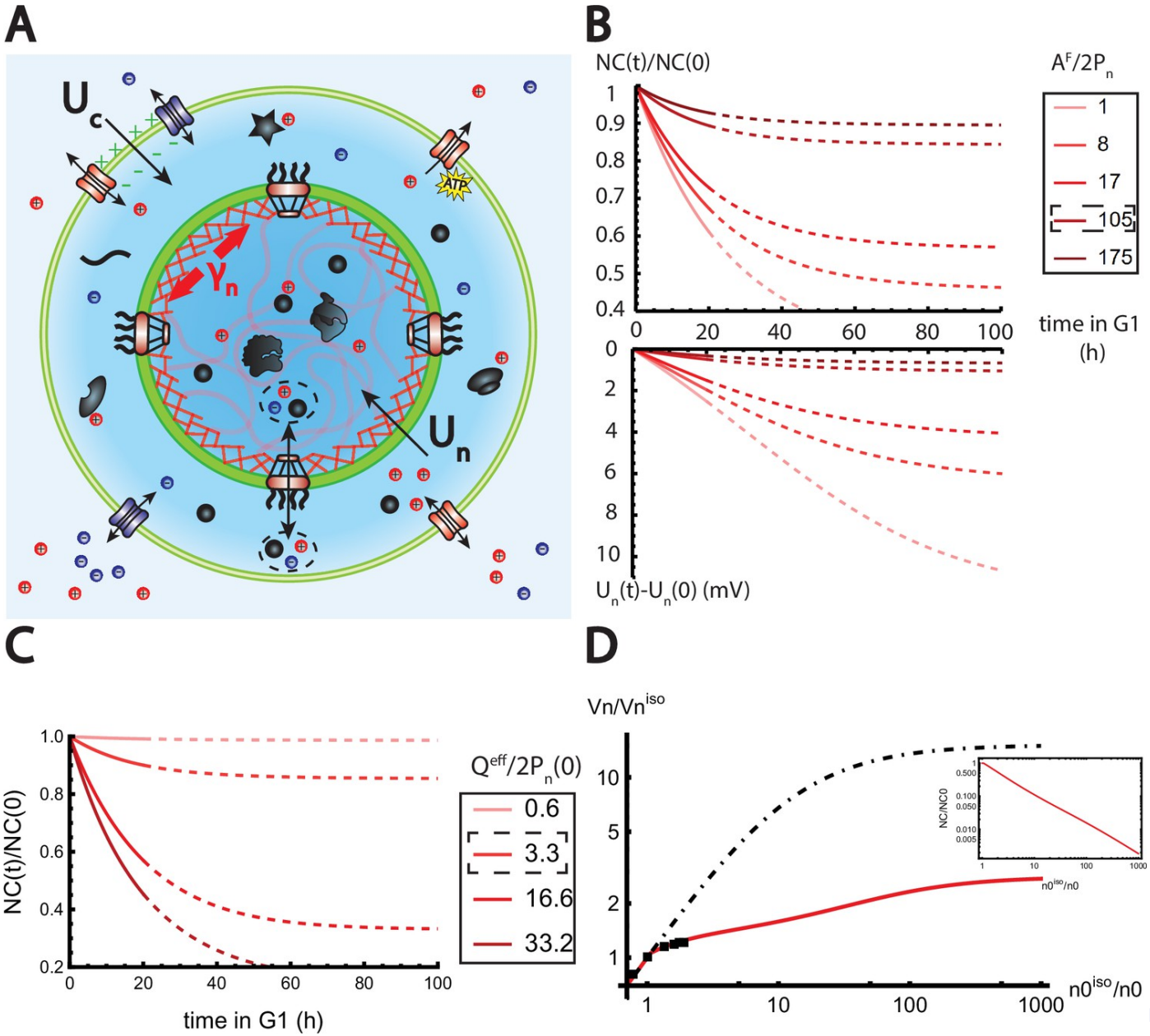
Croissance linéaire du volume Neurohr and Amon



Modèle de pompes et fuites Rollin et al.



Rapport karyoplasmique



Ploïdie

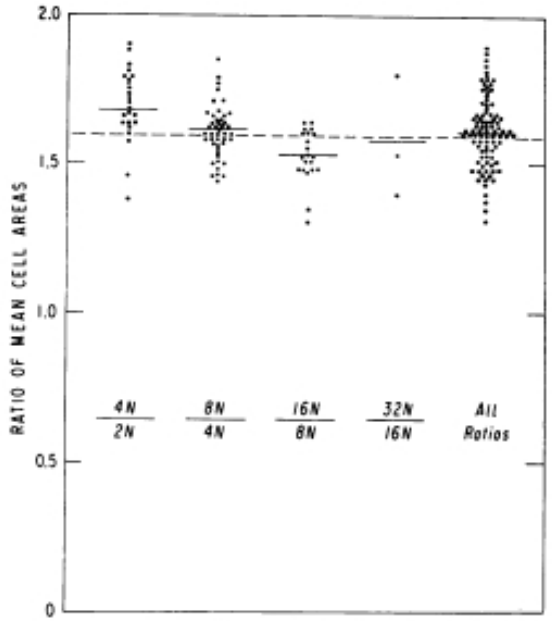
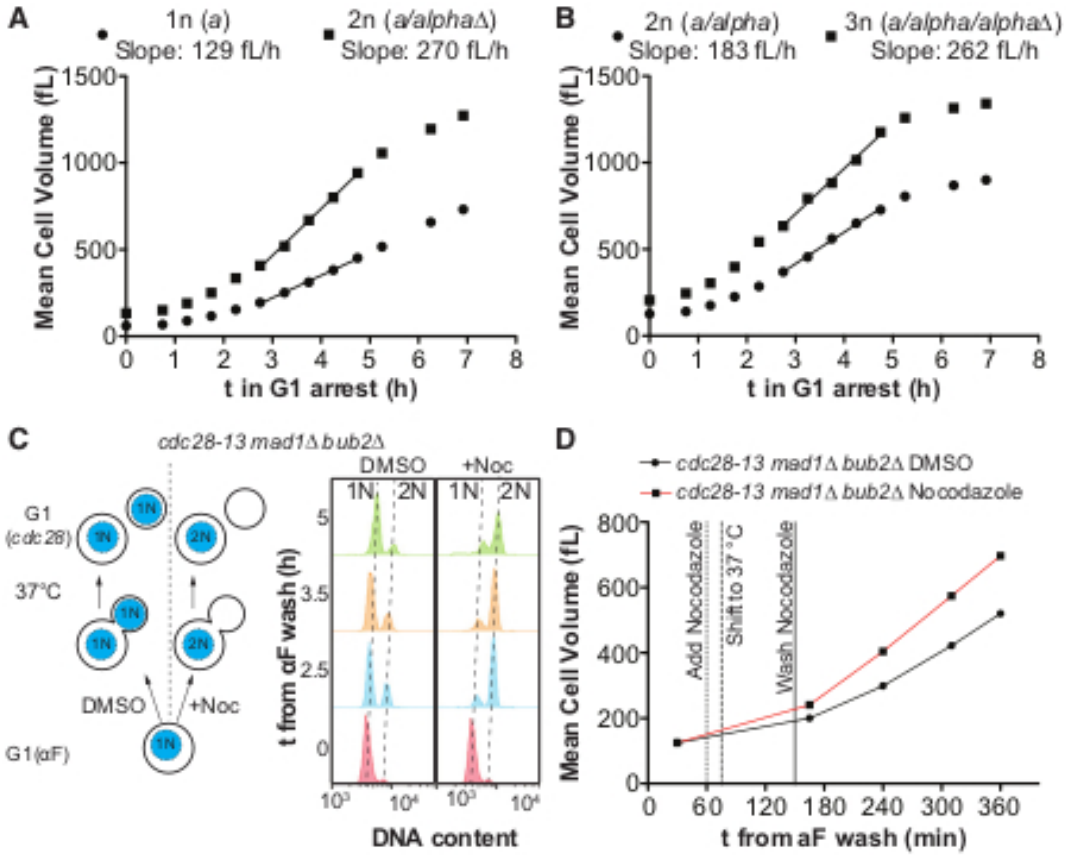


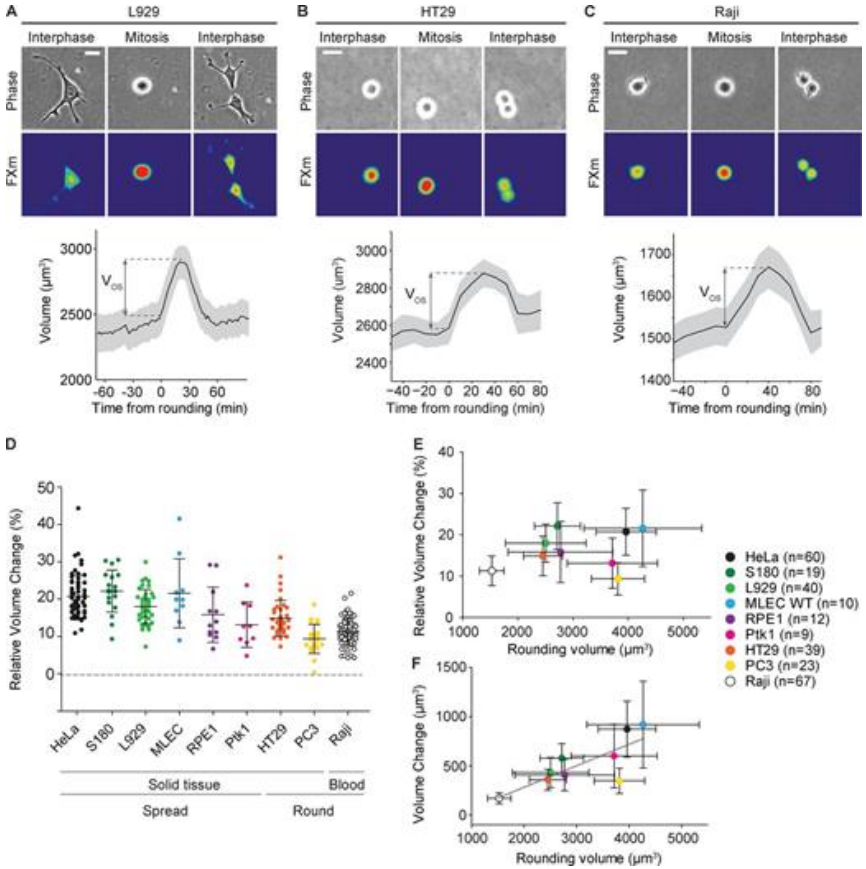
FIG. 6.—Ratios of mean cell areas for twofold differences in cell ploidy. Each point represents a separate determination carried out on cells from a mouse, rat, or human liver. The horizontal dashed line indicates a ratio of 1.59, the value theoretically expected for a twofold difference in mean cell volumes.

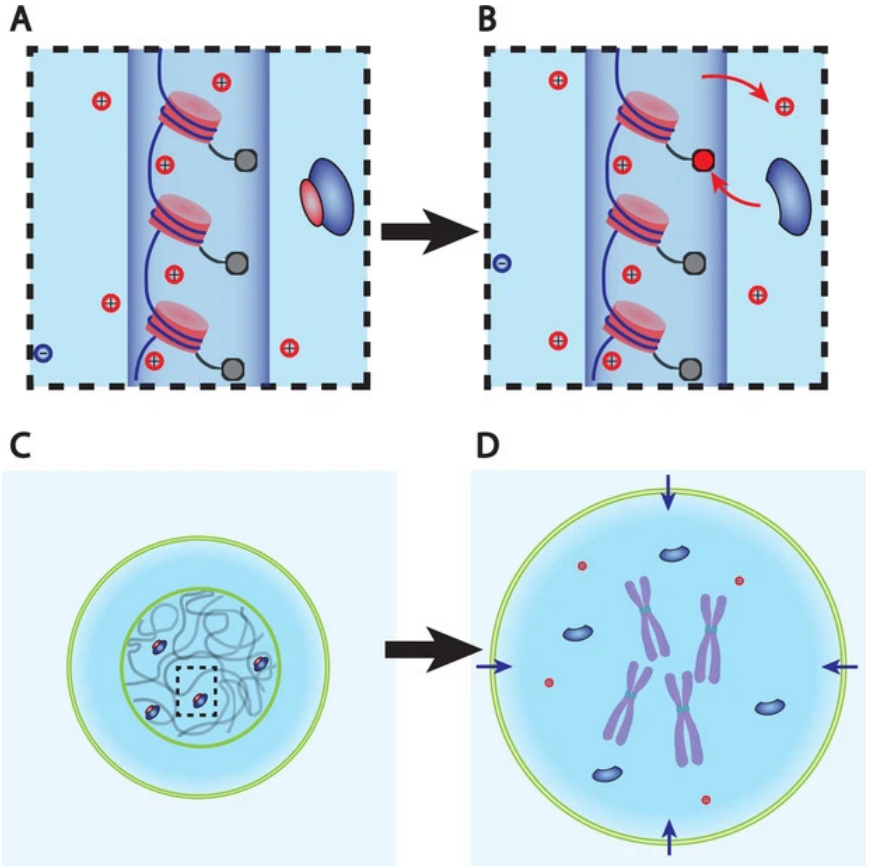
Epstein



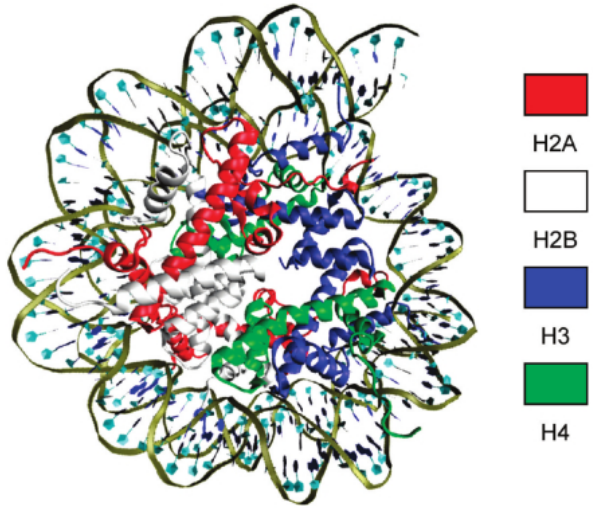
Neurohr et al

Gonflement mitotique *Zlotek-Zlotkiewicz et al., Rollin et al.*

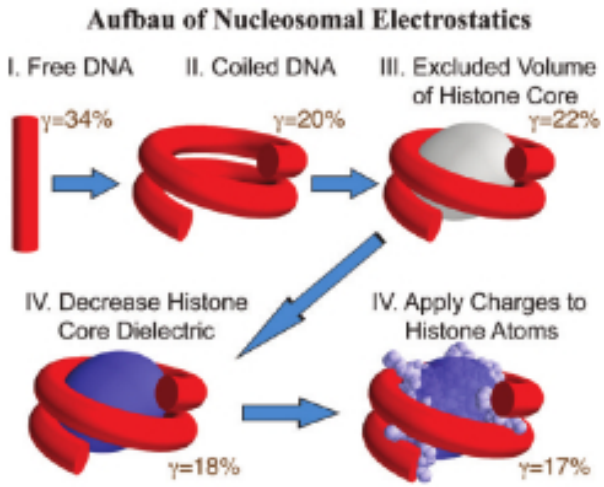




Déacétylation des histones Papoian



Materese et al.

Table 1. Summary of Results from Our All-Atom Nucleosome Simulation Describing the Charge Distribution within 1 nm of the DNA Surface

	charge	% of DNA charge
Net charge of DNA	−292	100%
Net charge of counterions	174	60%
Net charge of histones	76	26%
Net charge of system	−42	$\gamma = 14\%$
Radial center of mobile charges	4.40 Å	
Radial center of protein charges	4.34 Å