

La matrice extracellulaire

protéine de structure : le collagène

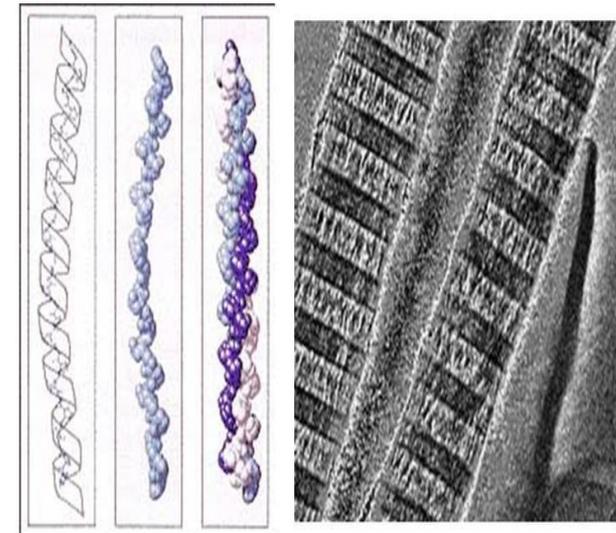
synthèse des fibrilles de collagène

The diagram shows a cell with various organelles. A callout box points to the rough endoplasmic reticulum where collagen synthesis occurs. Below this, three panels detail the process:

- Panel 1:** 'synthèse des chaînes de procollagène qui s'alignent grâce à des ponts disulfures'. It shows three polypeptide chains labeled α_1 , α_2 , and α_2 with 'extremités à éliminer' (ends to be removed) marked at their N and C termini.
- Panel 2:** 'formation de la triple hélice de procollagène'. It shows the three chains forming a triple helix structure. Reference: PDB:1bkv.
- Panel 3:** 'l'excision des extrémités de la triple hélice de procollagène induit l'assemblage spontané des fibrilles. Les liaisons par des groupes hydroxylysine renforcent les fibrilles. Plusieurs fibrilles forment des fibres de collagène (non montrée)'. It shows the triple helix being processed into a fibril, with hydroxylysine cross-links (yellow circles) strengthening the structure.

fibrille de collagène

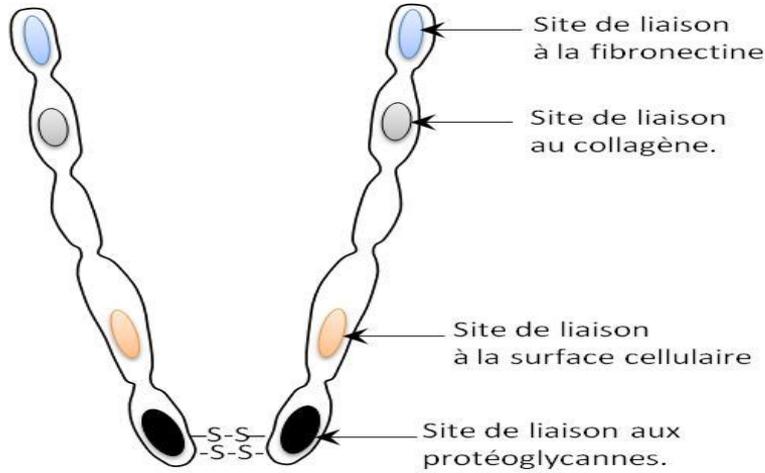
A vertical micrograph showing a single collagen fibril with a characteristic periodic banding pattern.



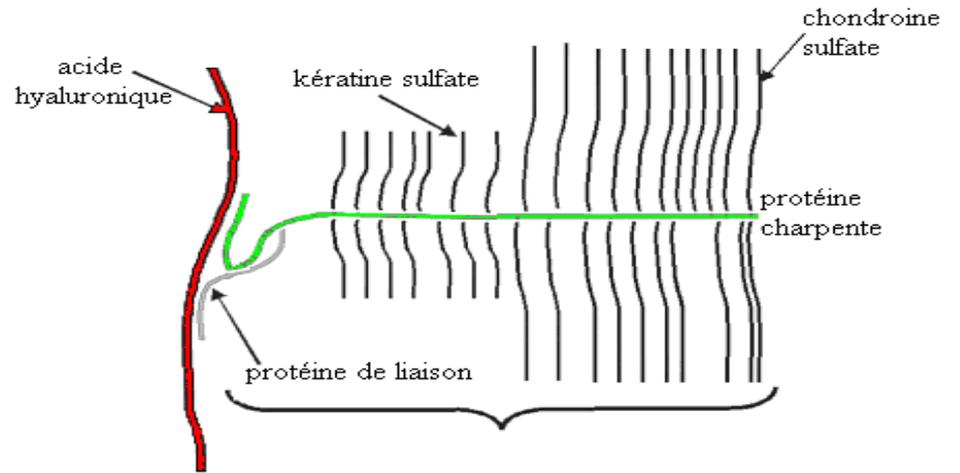
Le collagène

collagène I

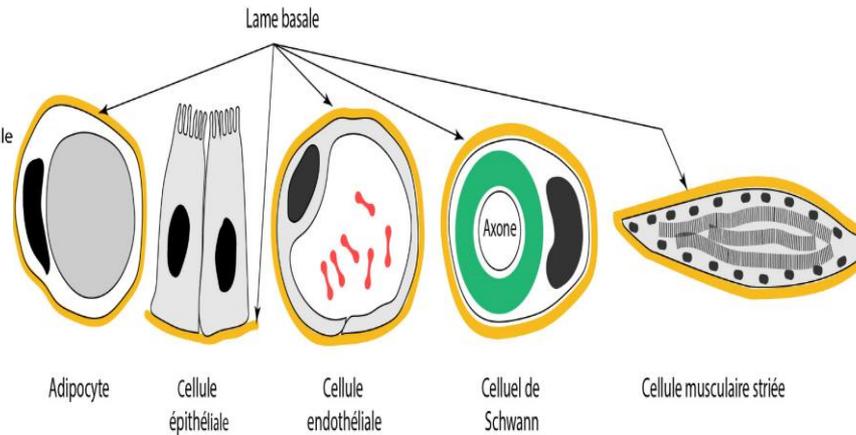
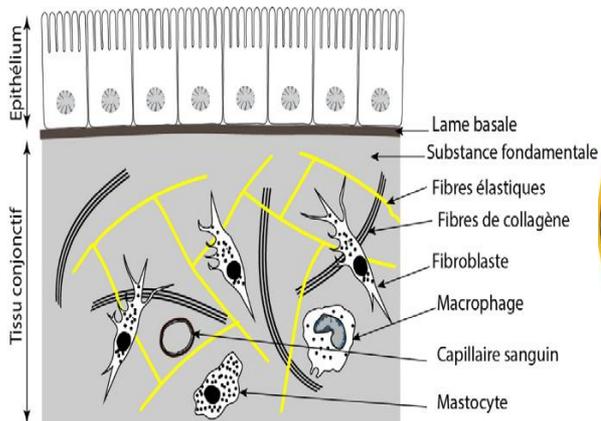
Matrice extracellulaire



La structure d'un dimère de fibronectine

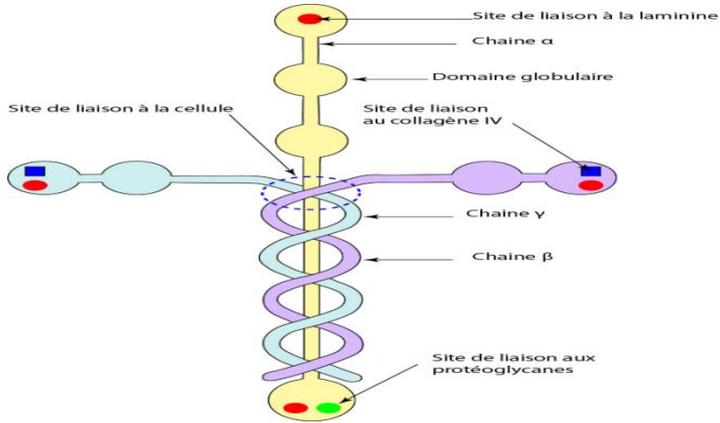


Le protéoglycane

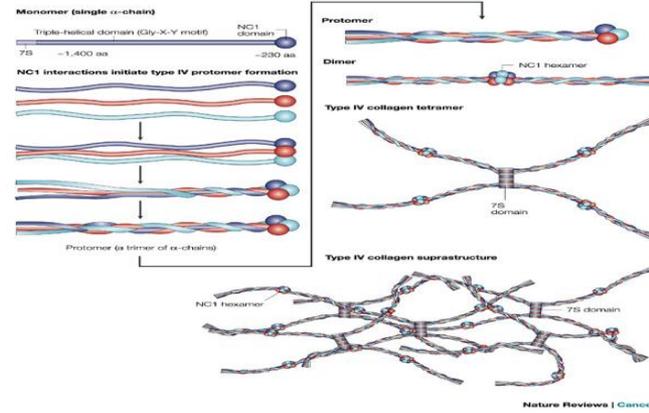


La positions de la lame basale

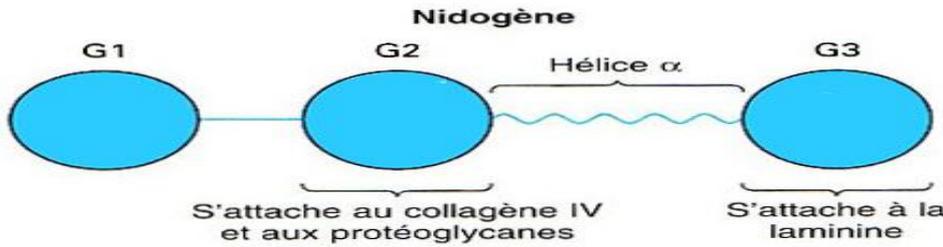
Matrice extracellulaire



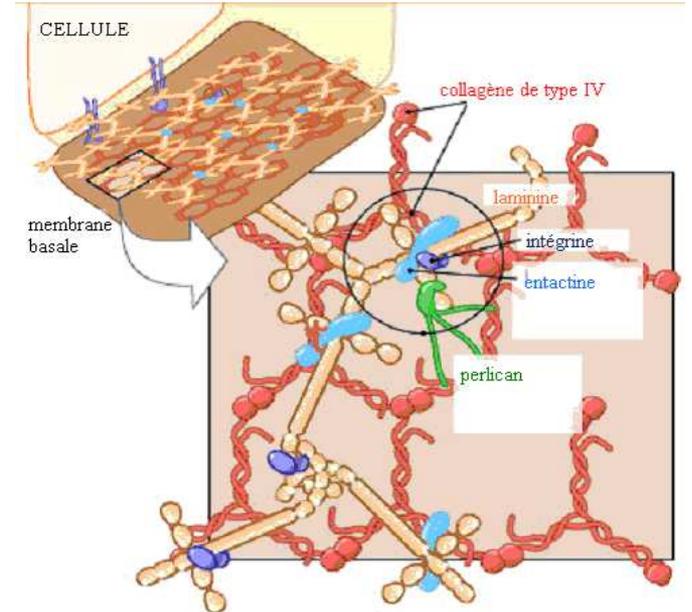
La laminine



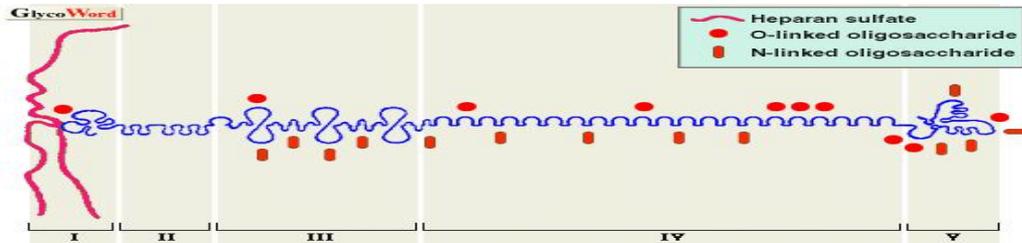
Le collagène de type IV



Le nidogène



La lame basale



Le perlécane