

PLAN

[P.LEMARCHAND](#)

GÉNÉRALITES (1)

TRANSPORTS PAR STRUCTURES MEMBRANAIRES

- Caractères
- Classification
- Protéines transporteuses (2)
- Transport passif (3)
- Transport actif (4)
 - ABC transporteurs (5)

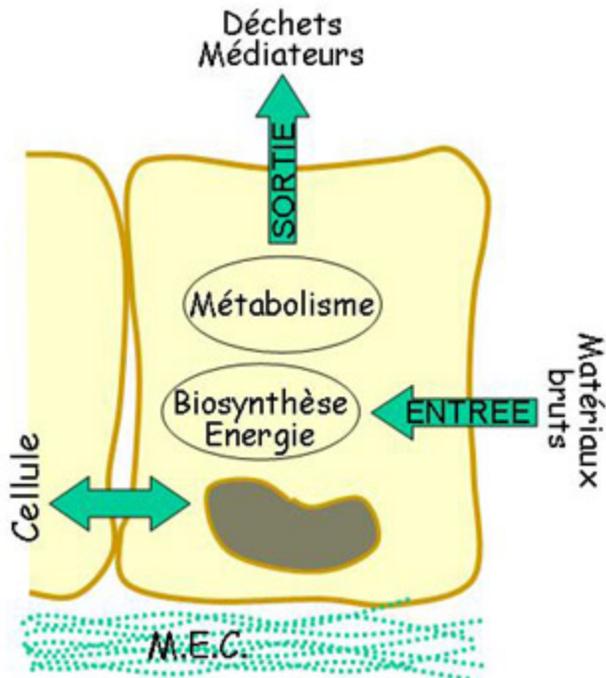
TRANSPORTS AVEC MOUVEMENTS MEMBRANAIRES (6)

- Caractères
- Intervenants
- Classification
- Endocytose
 - Classification (7)
 - Pinocytose (8)
 - Endocytose clathrine dépendante (9,10,11,12,13)
 - Endocytose dépendante des cavéolines (14,15)
 - Endocytose des protéines liées à un PGI (16)
- Phagocytose (17,18,19,20)
- Schéma récapitulatif (21)
- Exocytose
 - Exocytose provoquée (22,23)
 - Exocytose constitutive (24)
- Rôle du cytosquelette (25)

PHYSIOPATHOLOGIE

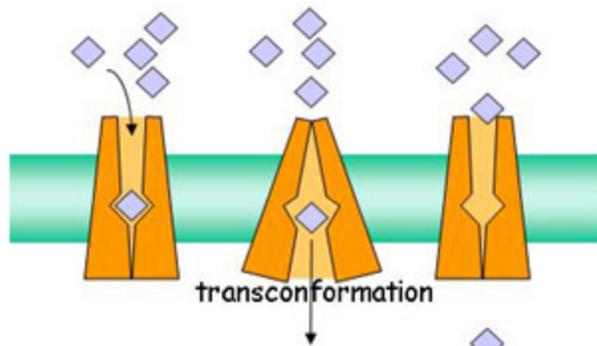
- Intégrité membranaire
 - Athérome
 - Toxines bactériennes (26)
- Maladies génétiques
 - Mucoviscidose
 - Déficit en récepteur LDL (27)
- Résistance à la chimiothérapie (28)
- Phagocytose des bactéries
 - Salmonelloses
 - Mycobactéries (29)
 - Listériose

Transport membranaire

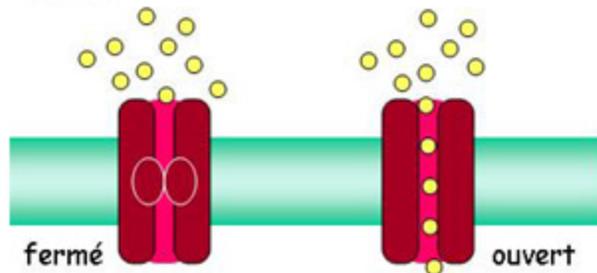


Protéines transporteuses

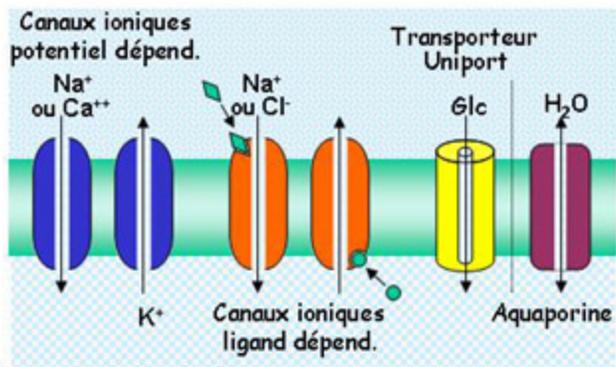
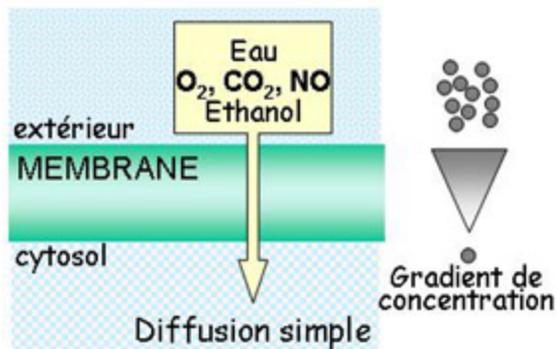
Perméase



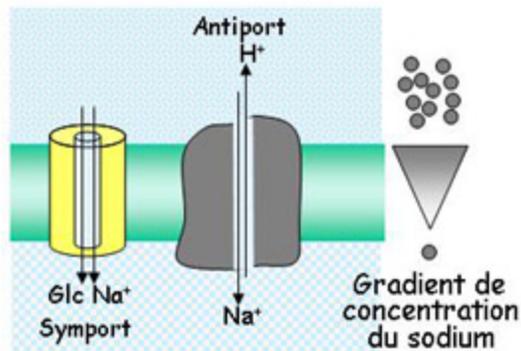
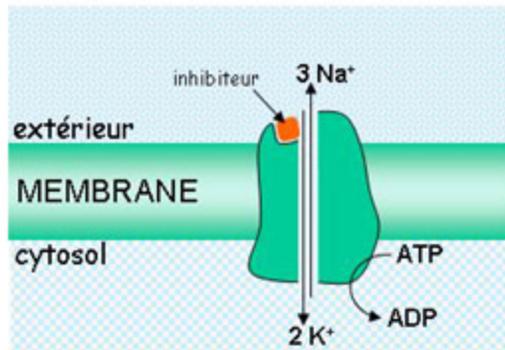
Canal



Transport passif

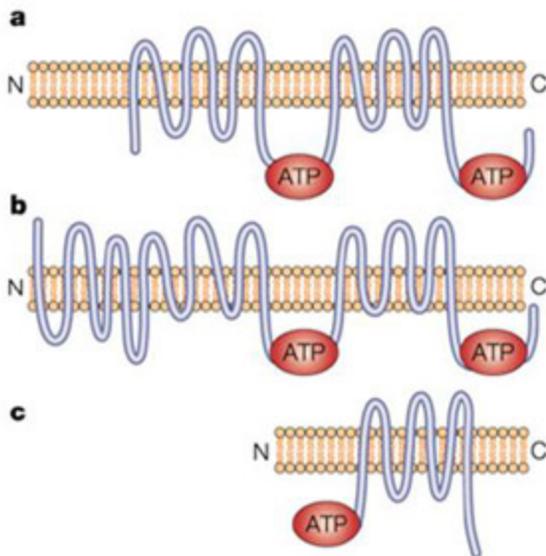


Transport actif



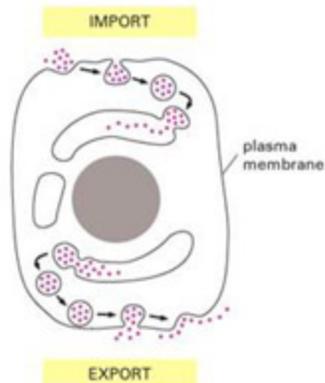
ABC transporteurs

Structure



Nature Reviews Cancer 2; 48-58 (2002)

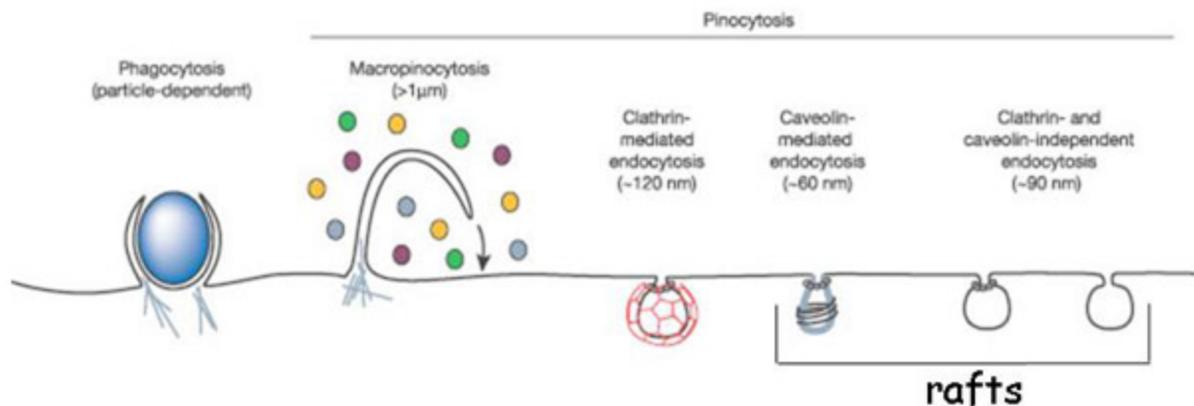
Transport avec mvts membranaires



Endocytose

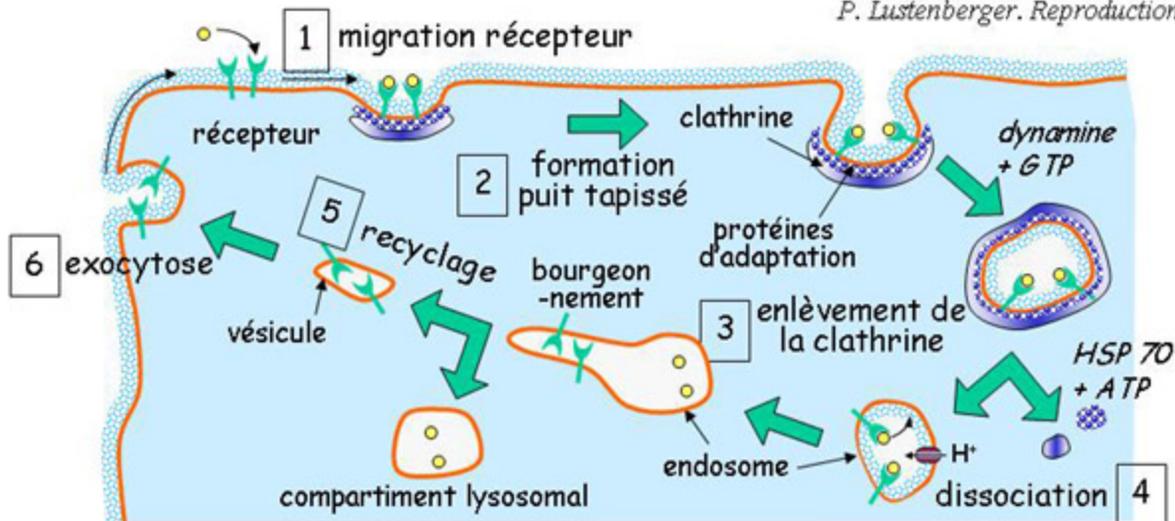
Pinocytose	Phagocytose
Capture de macromolécules et de solutés dans de petites vésicules	Capture de particules solides ou de débris dans de grosses vacuoles
	Consomme beaucoup d'ATP

Pinocytose

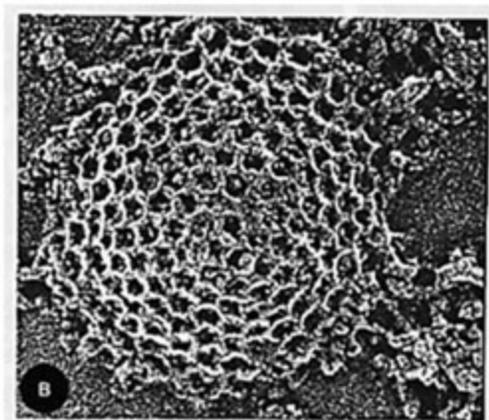
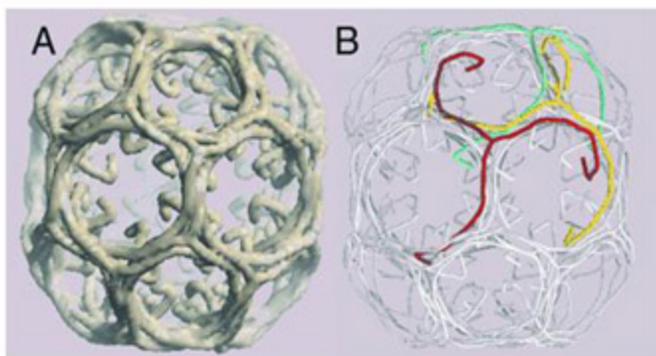
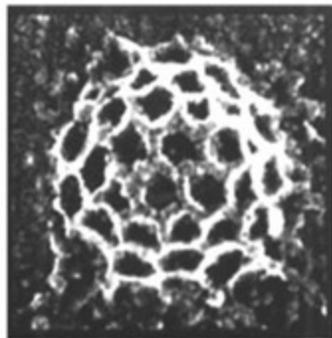


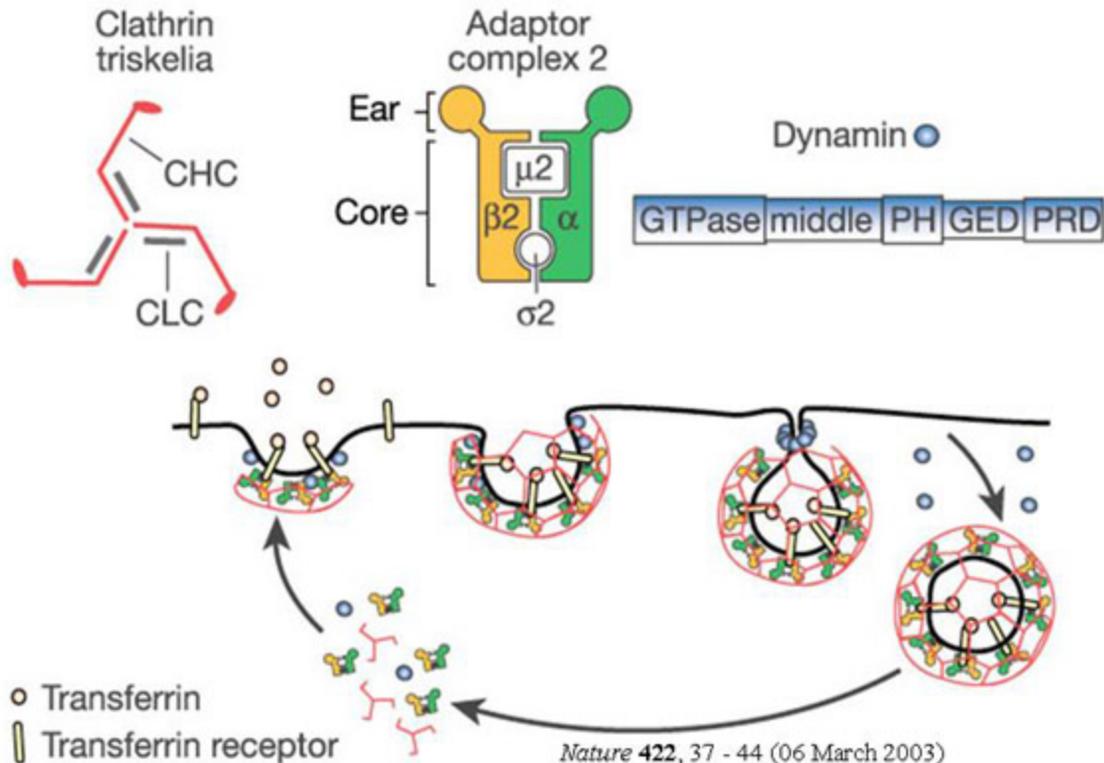
Endocytose clathrine-dépendante

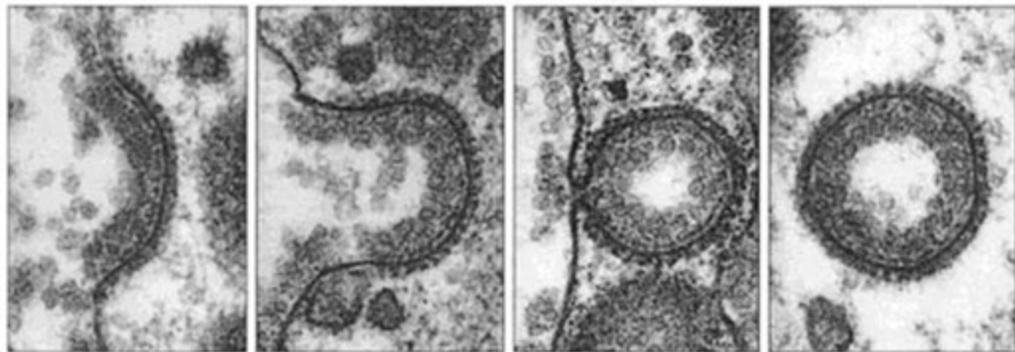
P. Lustenberger. Reproduction interdite



suite

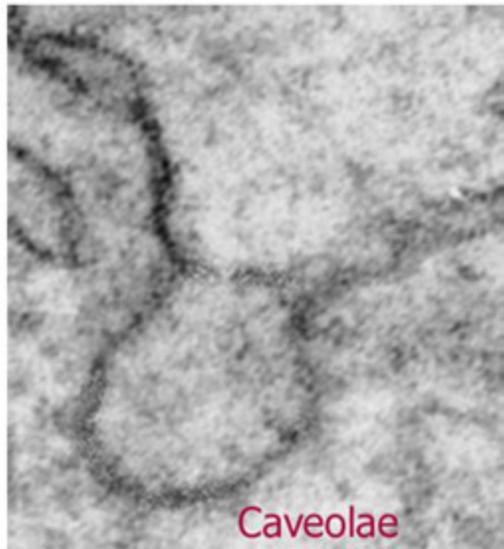




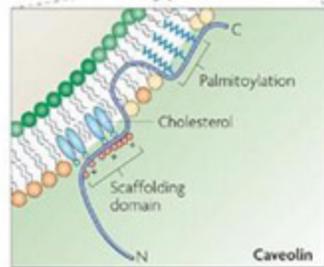
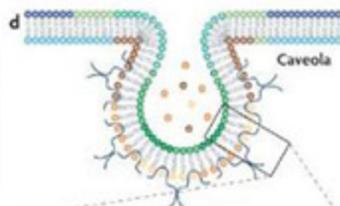
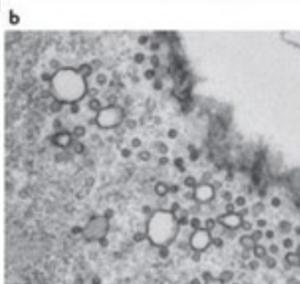
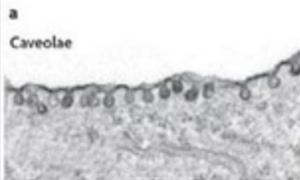
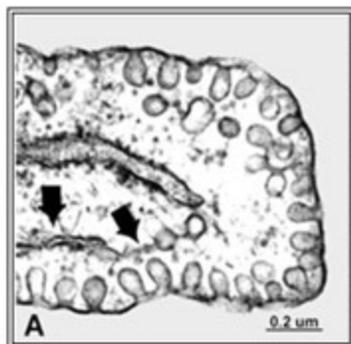


(A)
Molecular Biology of the Cell, 3rd edn

Endocytose dépendante des cavéolines

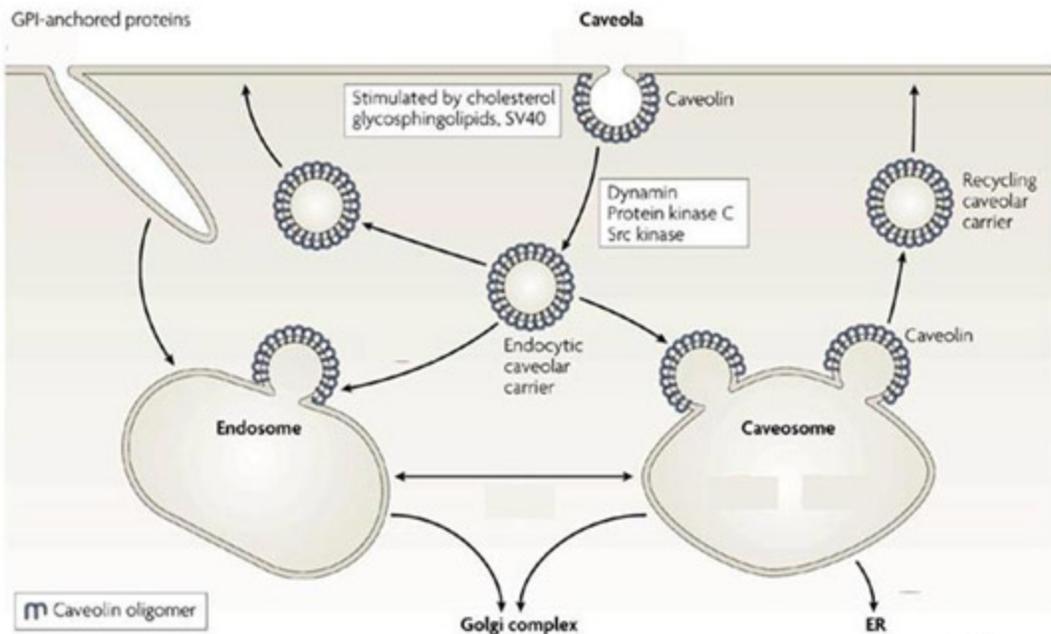


Endocytose dépendante des cavéolines



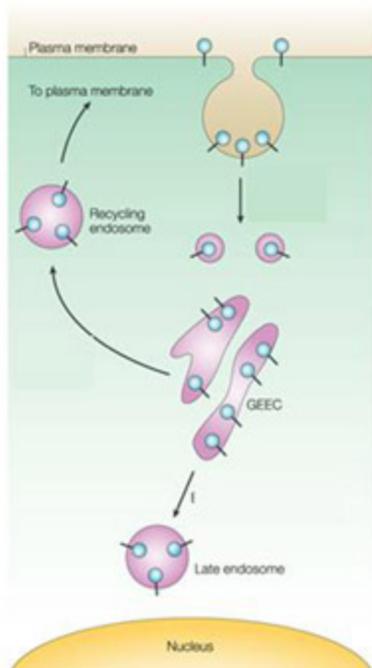
Nature Reviews Molecular Cell Biology 8, 603-612 (2007)

Nature Reviews Molecular Cell Biology 8, 185-194 (2007)



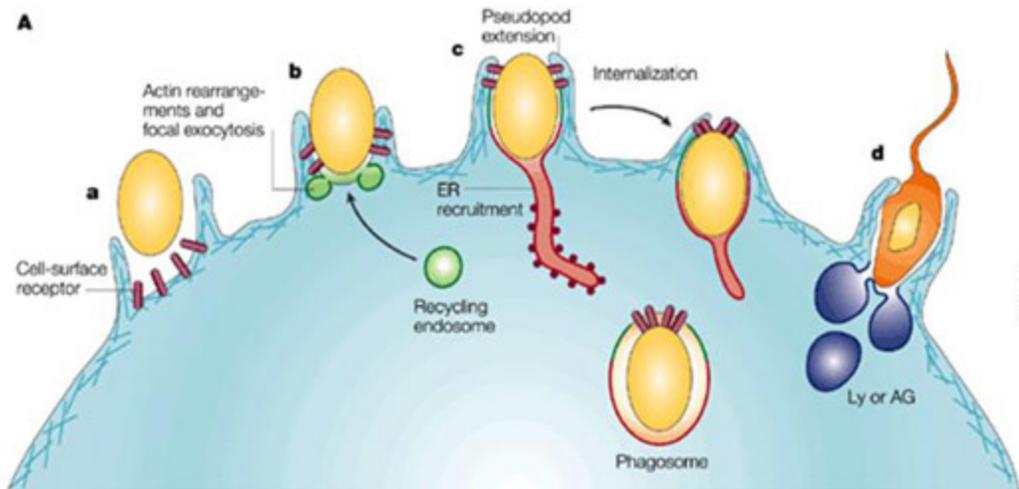
Endocytose des protéines liées à un GPI

- ❑ Vésicules d'endocytose
- ❑ Non dépendantes de la dynamine
- ❑ Distinctes des vésicules à clathrine et des cavéoles
- ❑ Recyclage
- ❑ Ne vont pas au Golgi



Nature Reviews Molecular Cell Biology 5; 110-120 (2004)

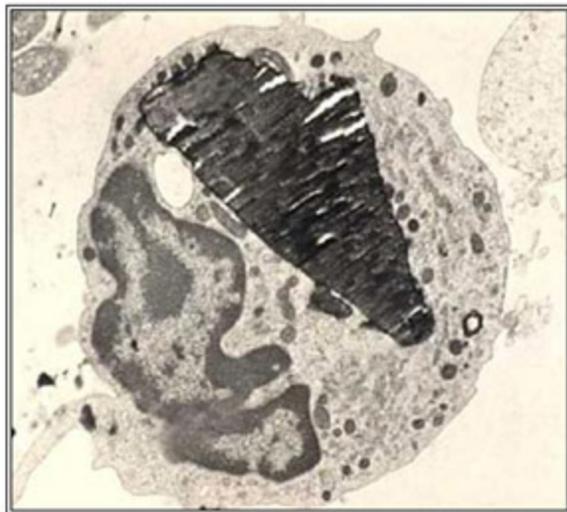
Phagocytosis



Nature Reviews Immunology
3, 280-291 (2003)

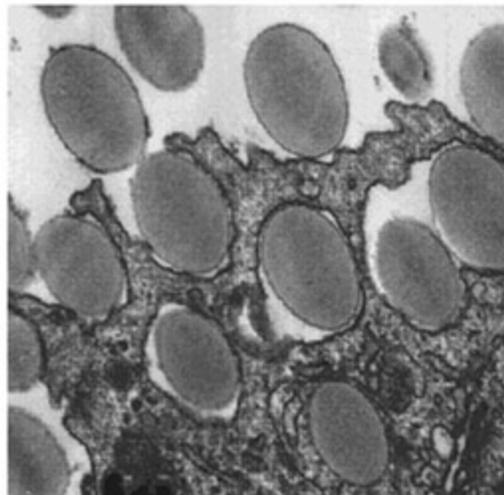
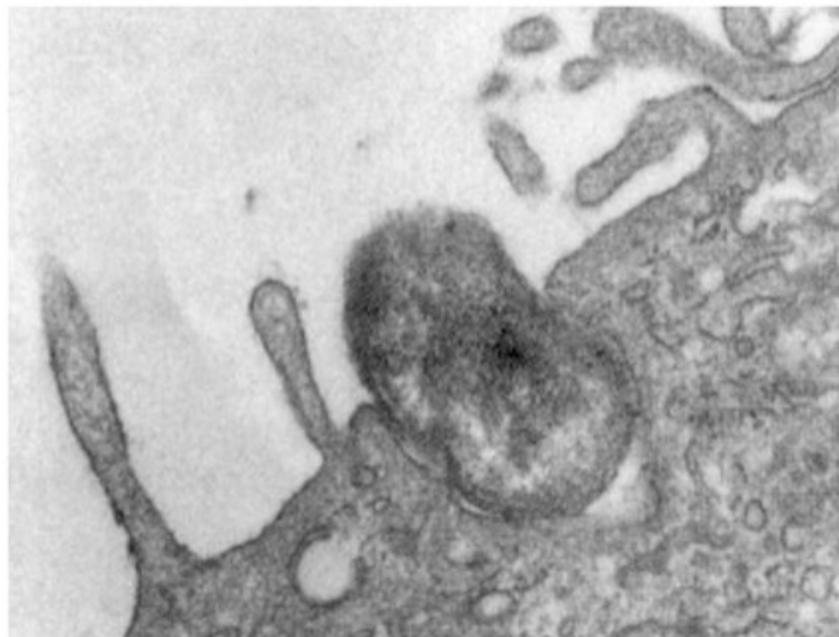
suite

- Polynucléaire ayant phagocyté un microcristal



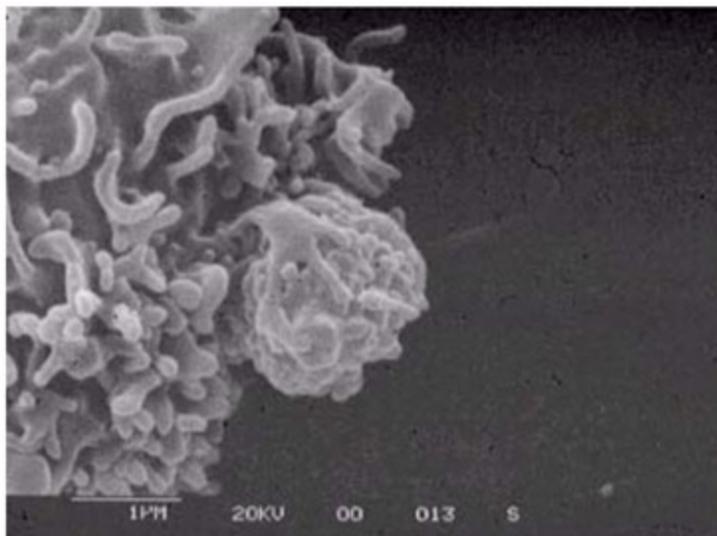
suite

- Polynucléaire phagocytant une bactérie ou des billes de latex

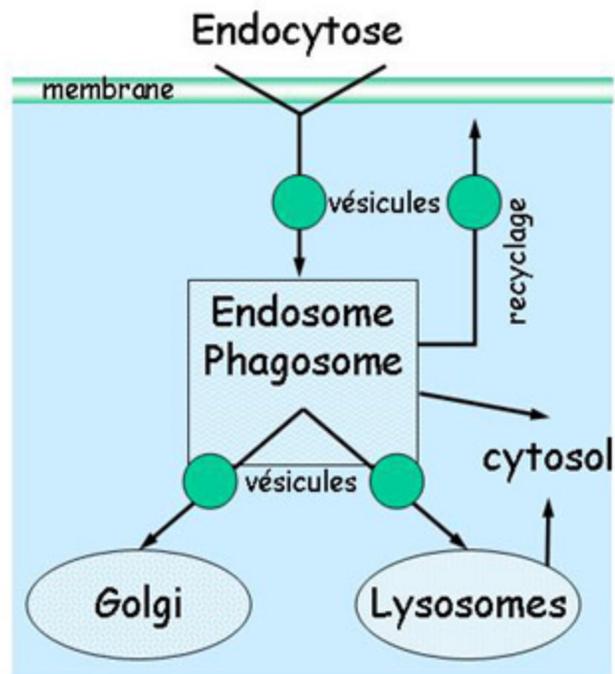


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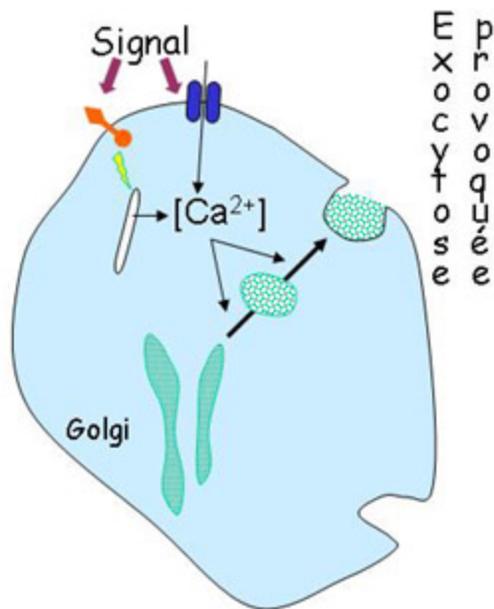
- Macrophage phagocytant une spore fongique



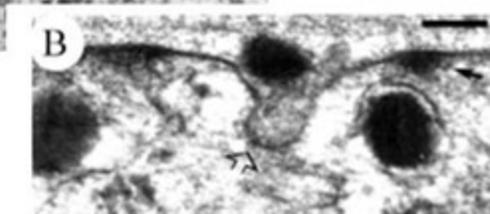
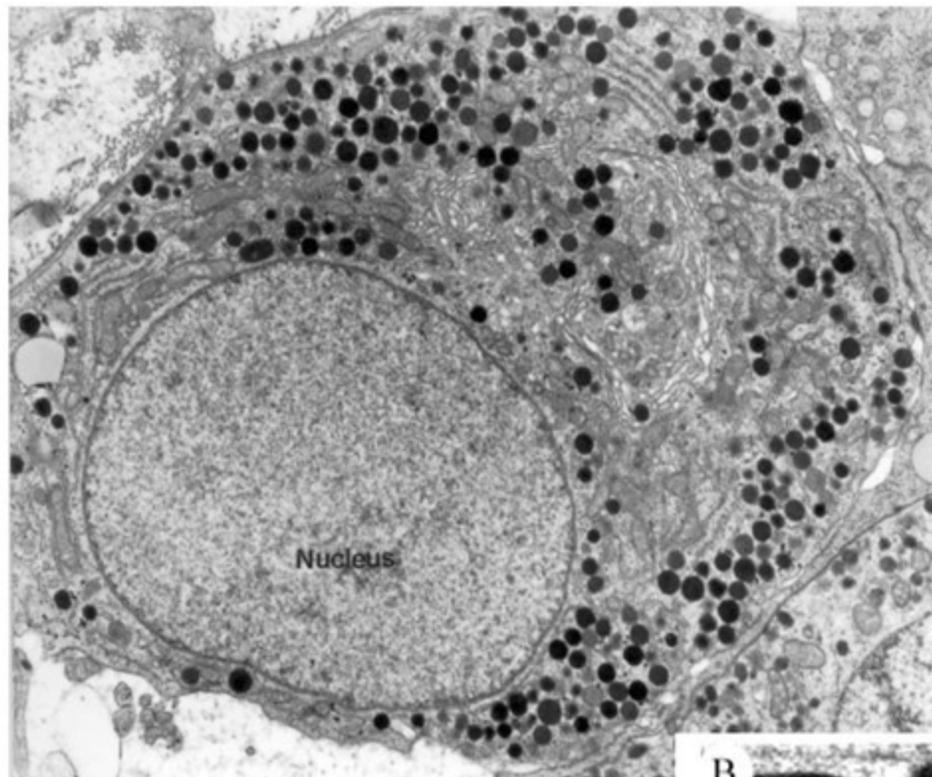
suite



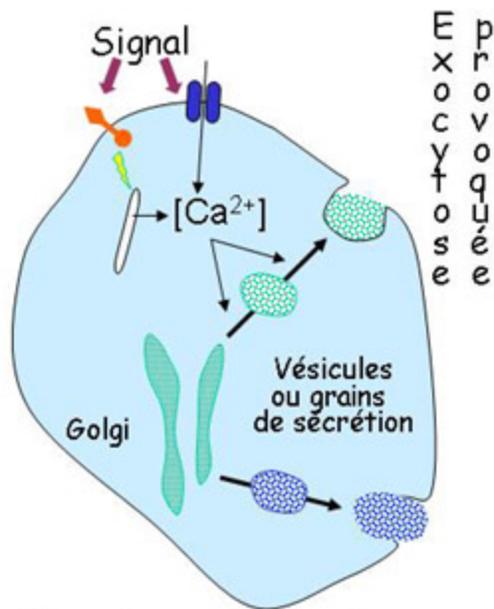
Exocytose provoquée



suite

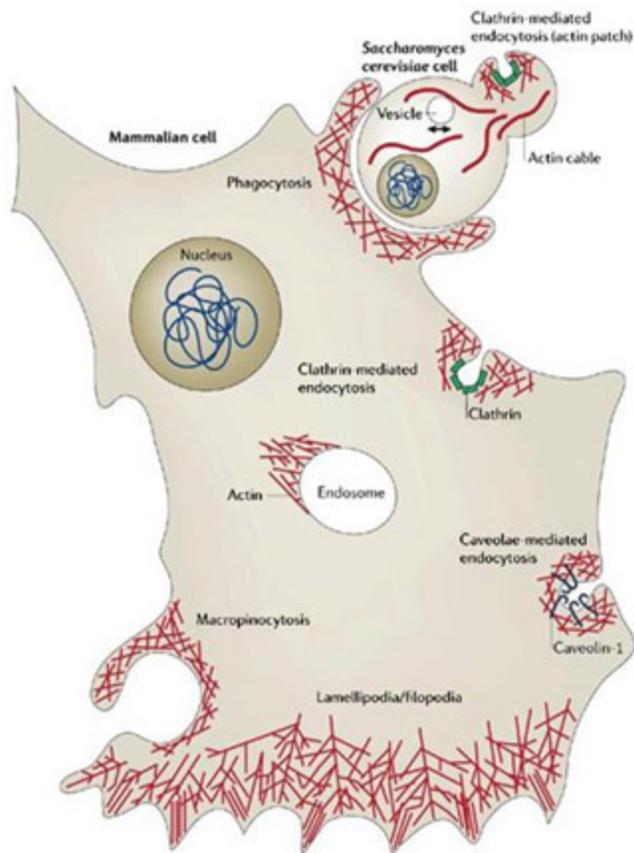


Exocytose constitutive

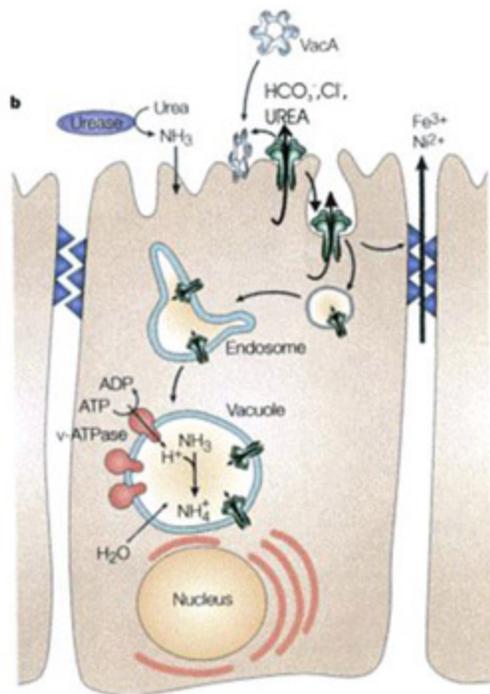


Exocytose constitutive

Rôle du cytosquelette

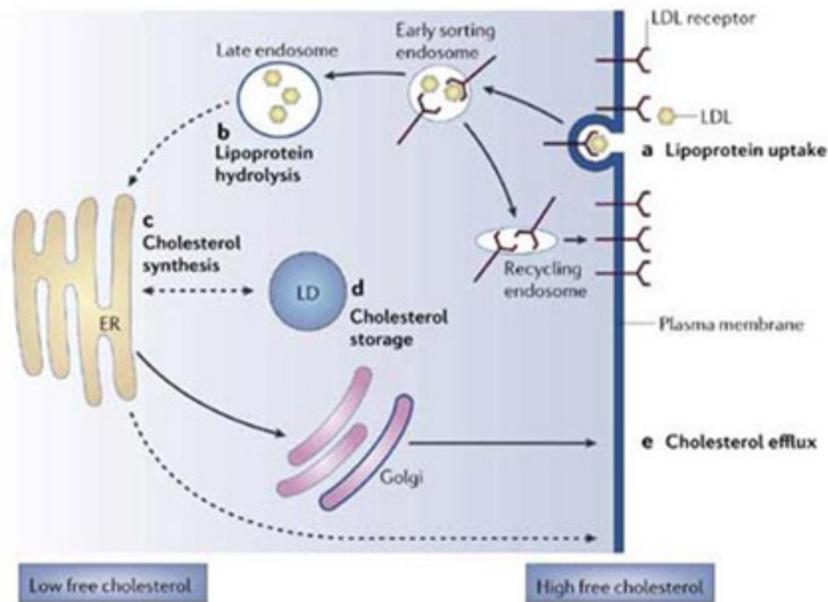


Helicobacter pylori

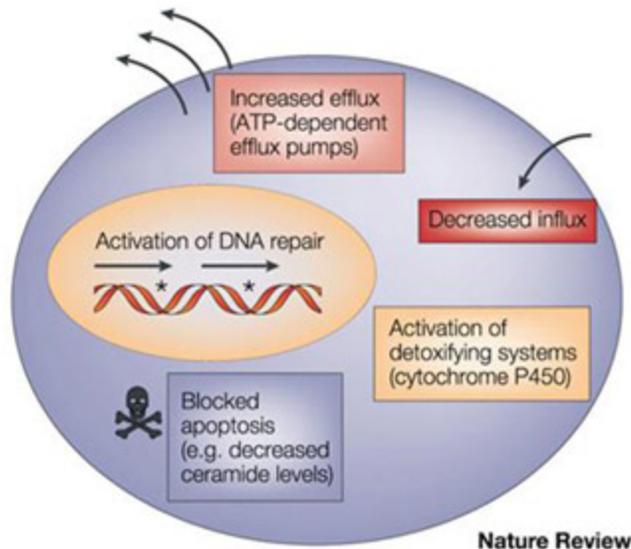


Microbes and Infection 2003; 5:715-721
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Déficit en récepteur LDL



Résistance des cancers à la chimiothérapie



Nature Reviews Cancer 2; 48-58 (2002)

Mycobactéries

