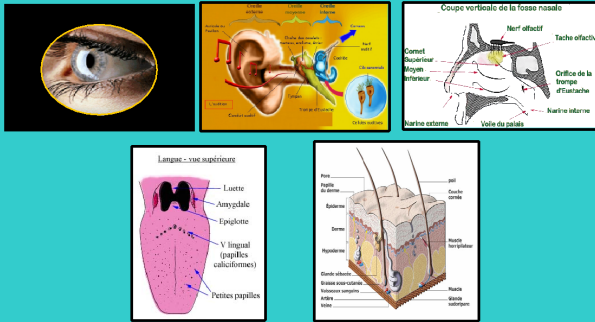


organes des sens

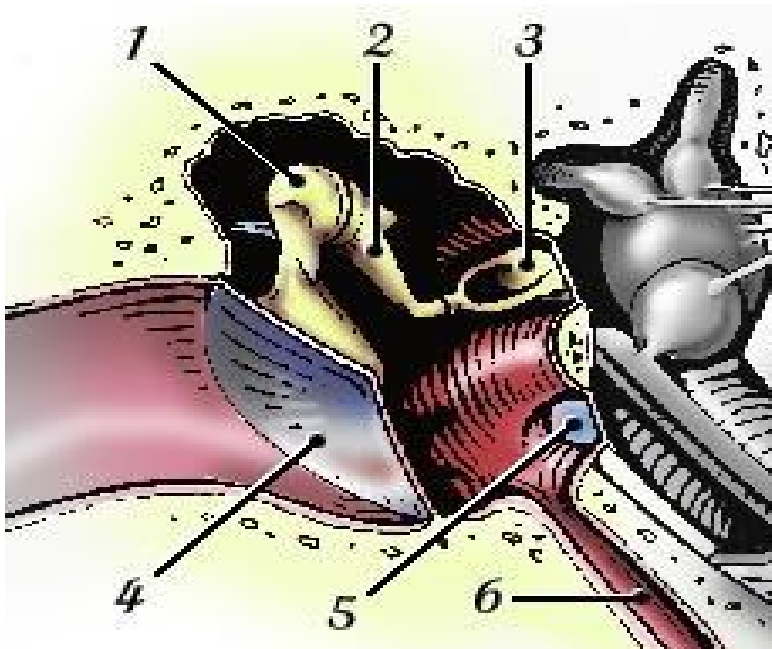
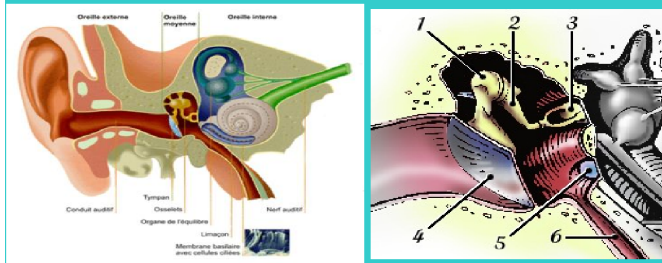
Organes de sens: interface pour un être vivant, entre le milieu porteur d'information (extérieur) et de son milieu intérieur

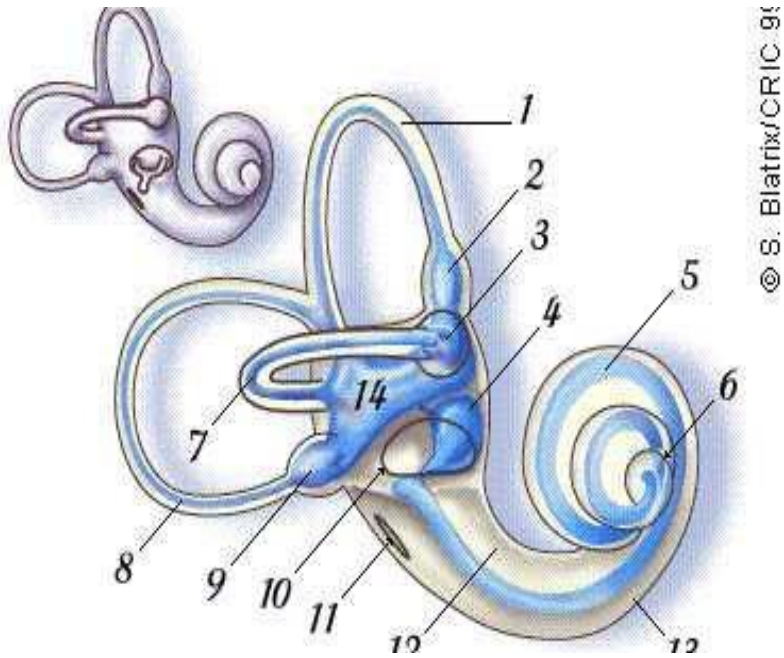


L'audition

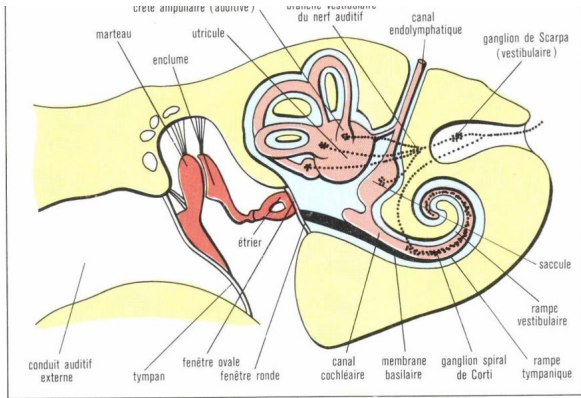
1/ Anatomie

L'oreille: organe de l'audition et de l'équilibration

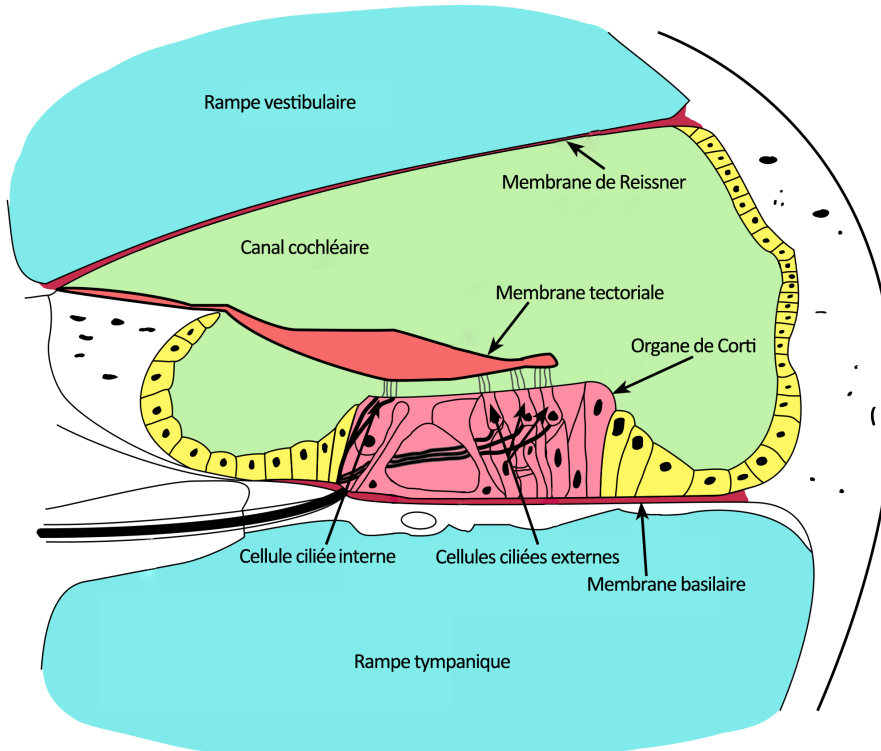


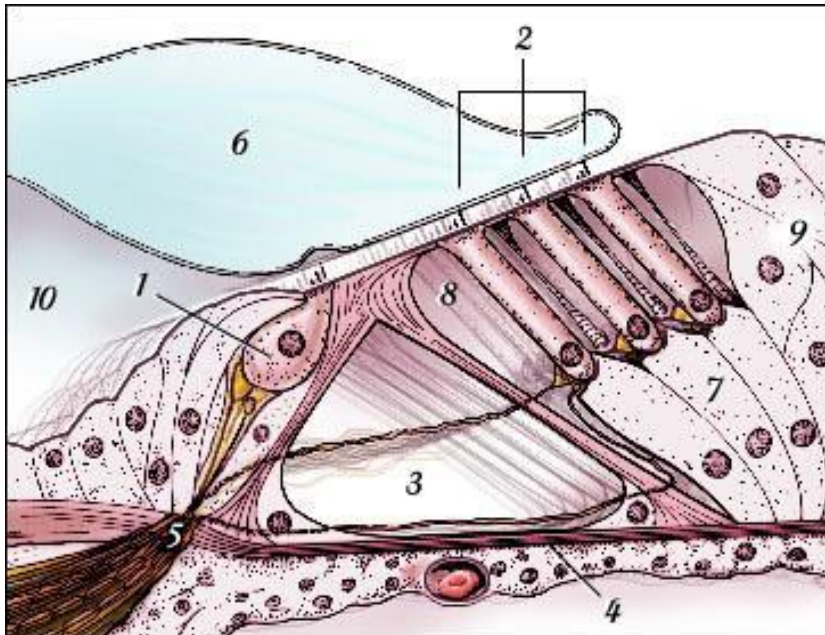
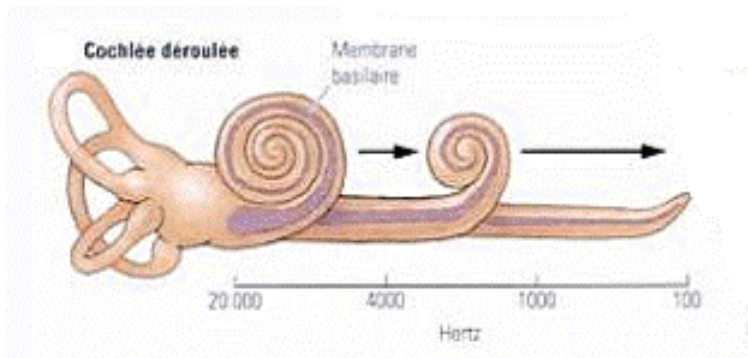
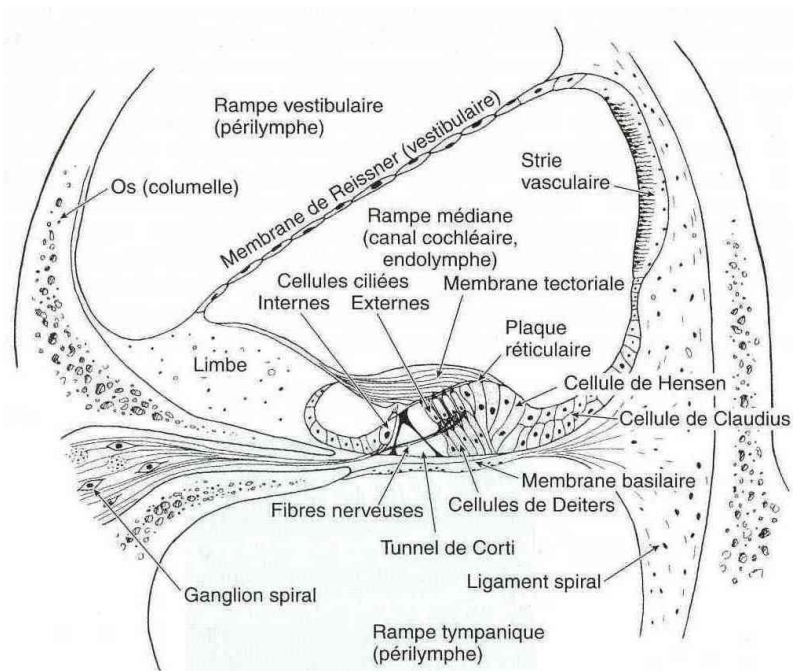


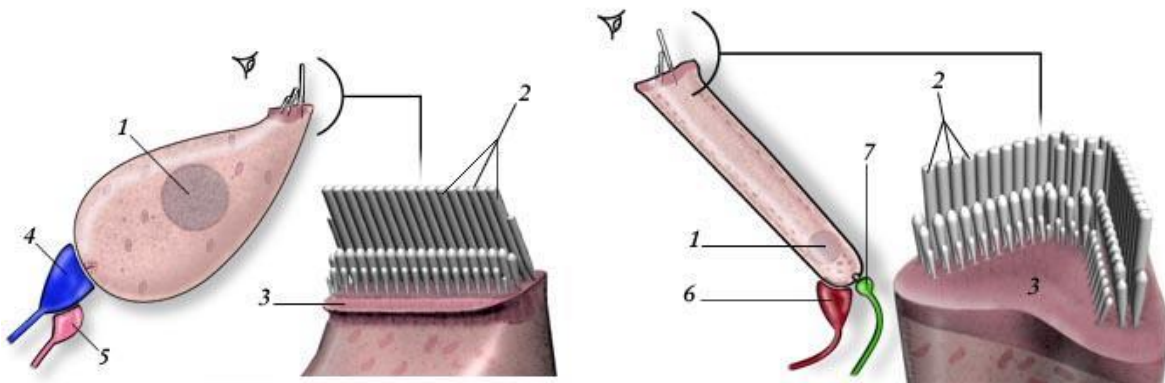
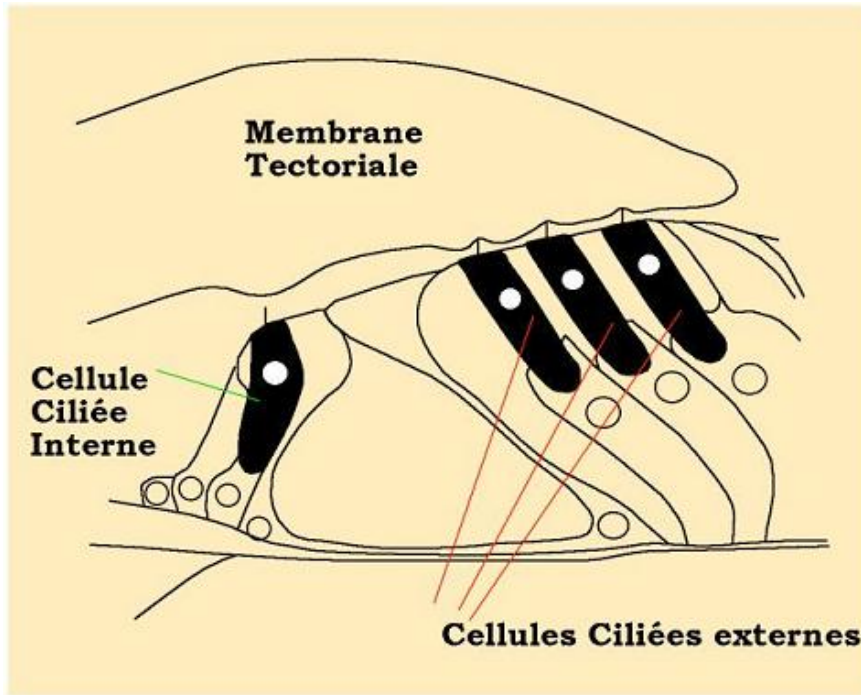
© S. Blatrix/CRIC 91

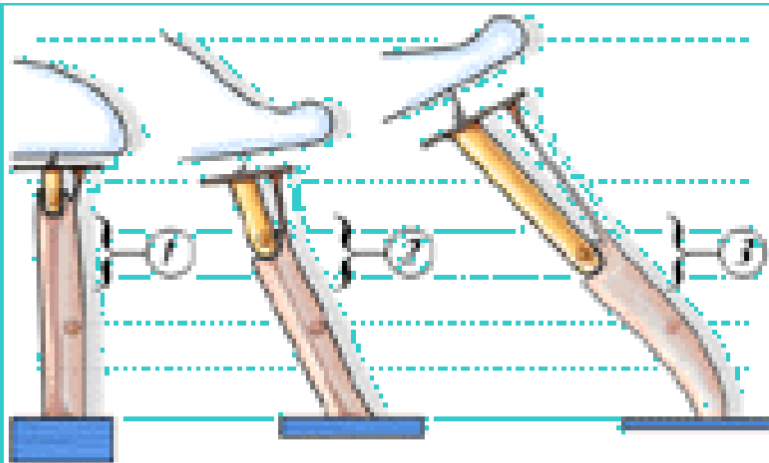
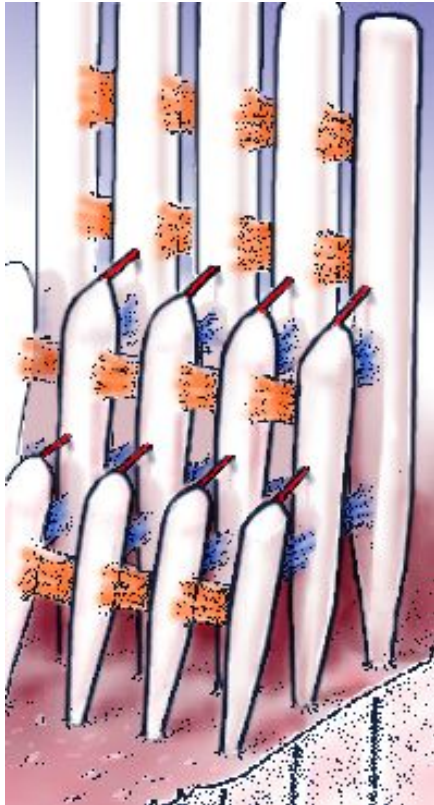


Oreille de l'homme : schéma des ossements et des membranes





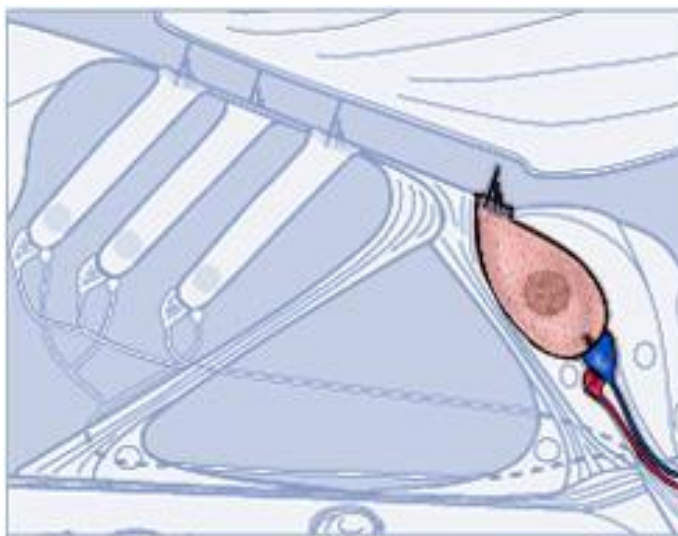
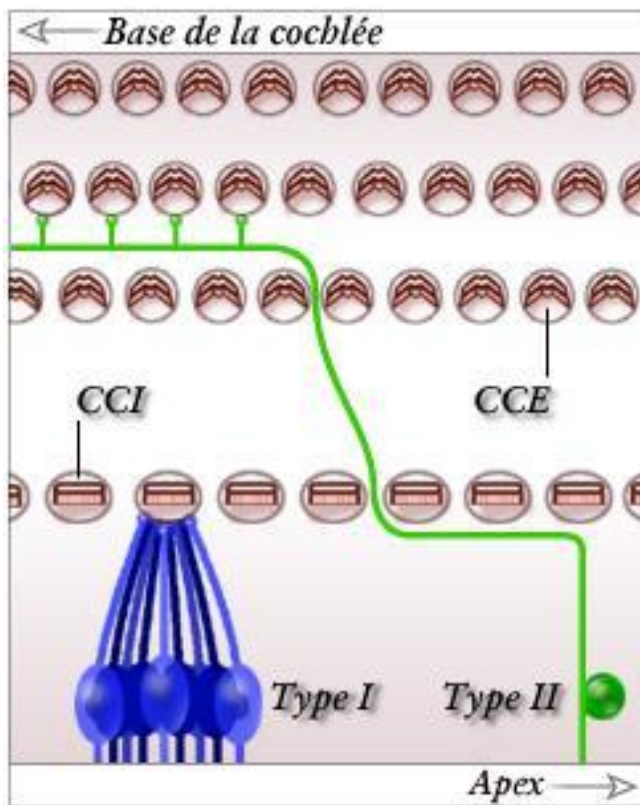




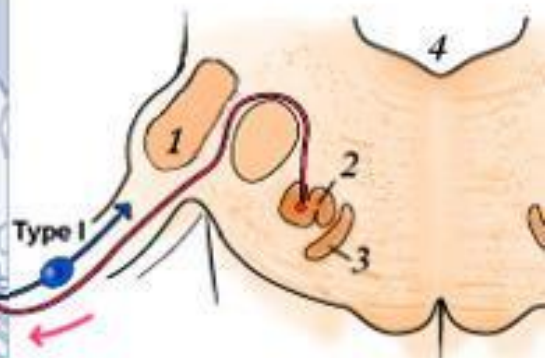
la base: - C.CE courte

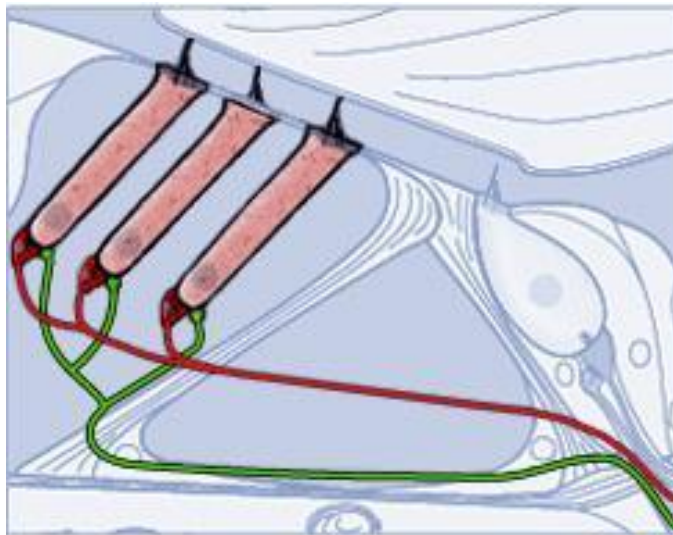
- stéréocils les plus longs sont fortement implantés dans la M.Tect
- cellule de Deiter (D) rigide (faisceau de microtubules) $\square$ couplage ferme existe entre M. basilaire et tectoriaie $\square$ contraction de la C. ciliée externe peut modifier la mécanique cochléaire.

Apex: CCE longue, simplement posée sur une cellule de Deiter peu rigide $\square$ couplage MB/MT est pratiquement inexistant

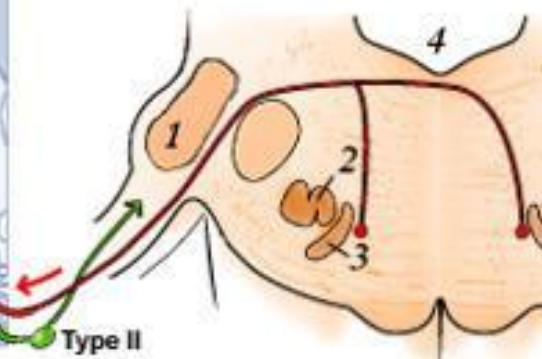


- 1- Noyaux cochléaires
- 2- Olive supérieure latérale
- 3- Olive supérieure médiane
- 4- Plancher du IV^e ventricule

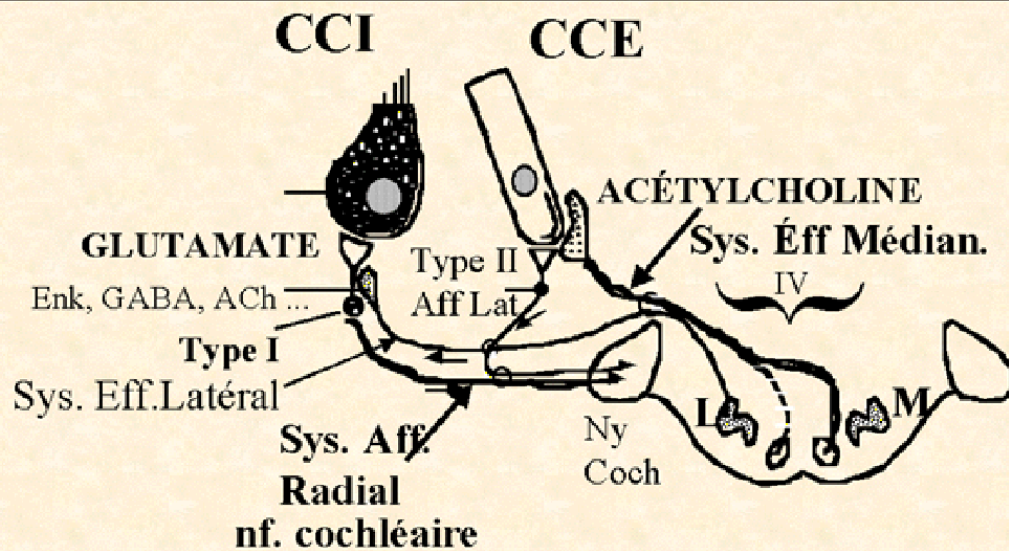


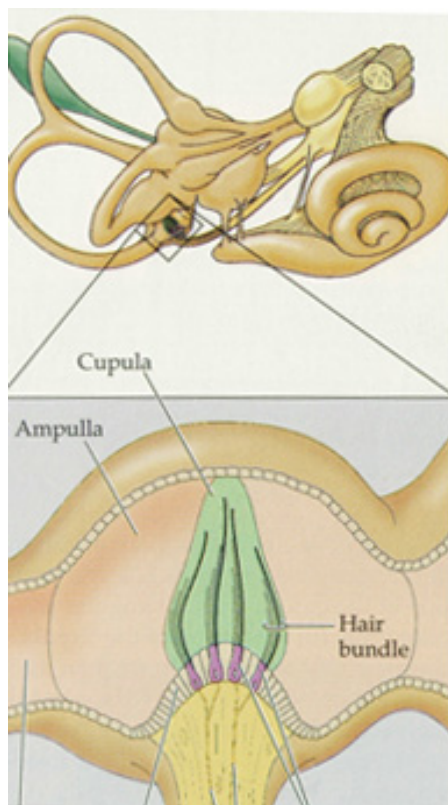
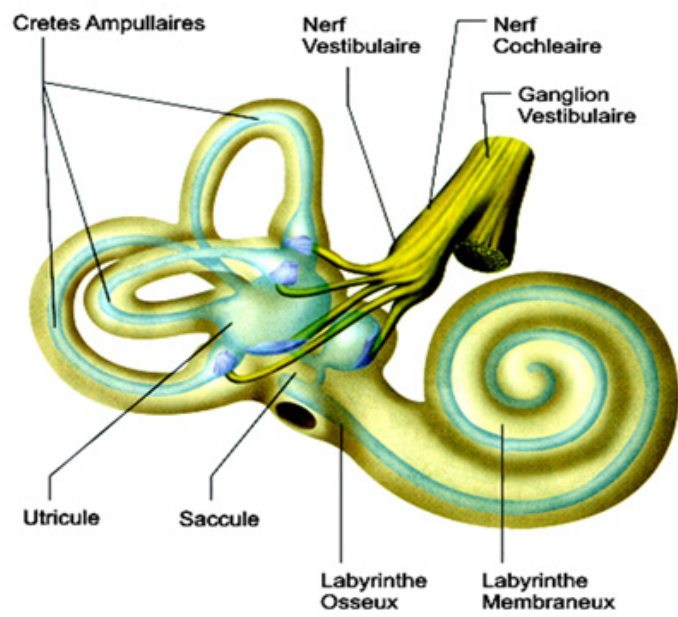


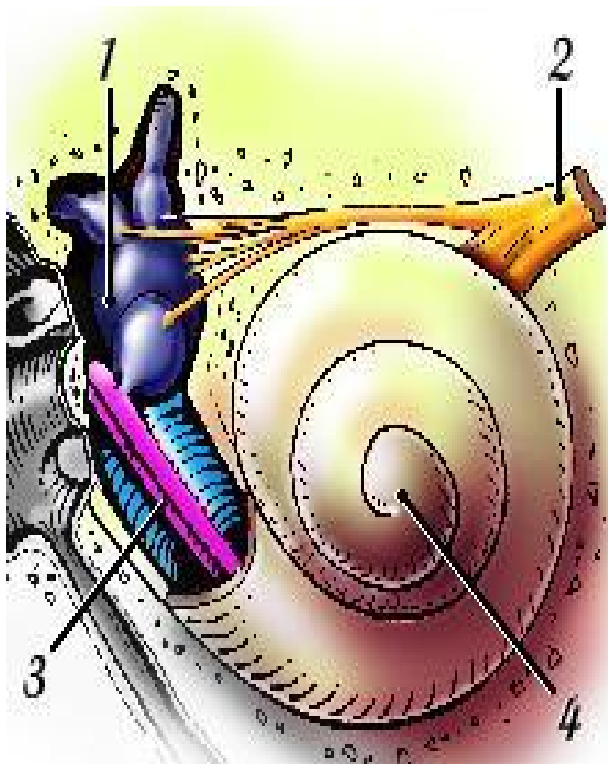
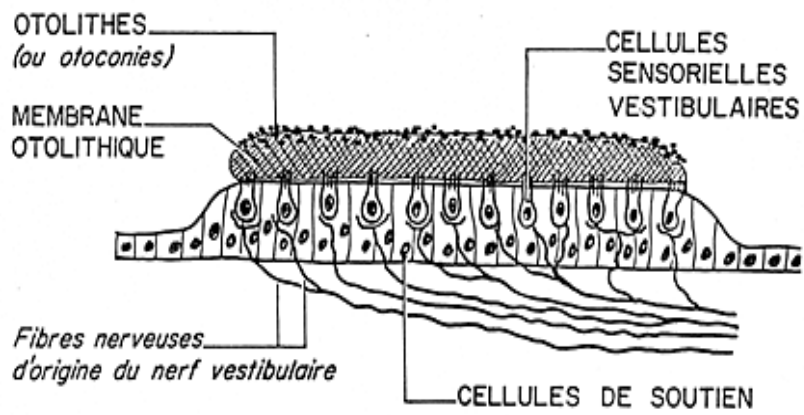
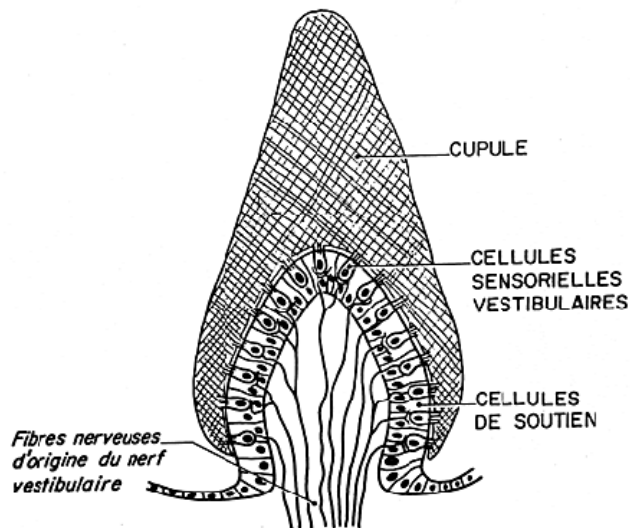
- 1- Noyaux cochléaires
- 2- Olive supérieure latérale
- 3- Olive supérieure médiane
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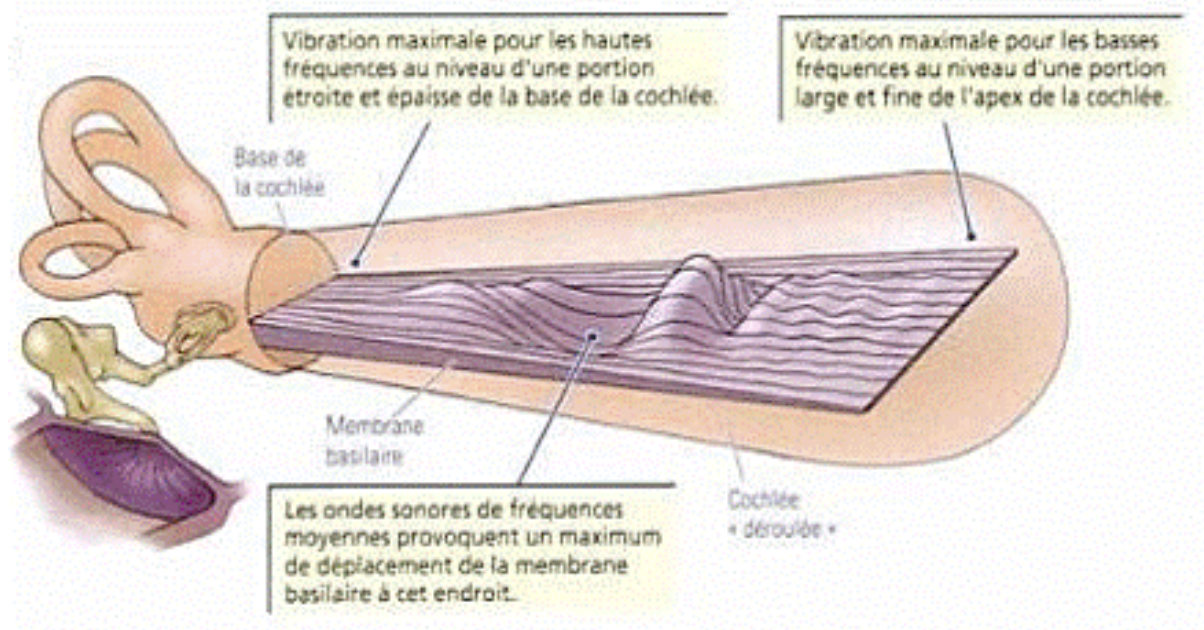
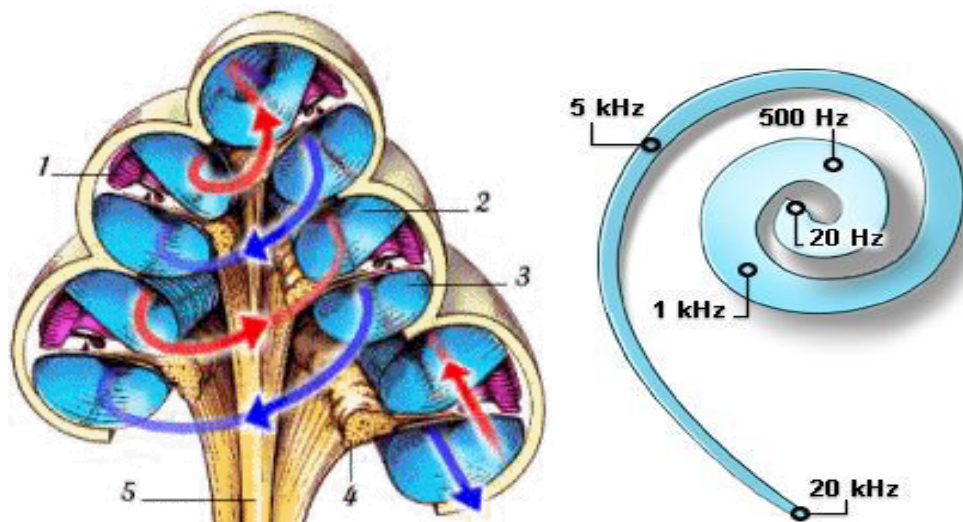
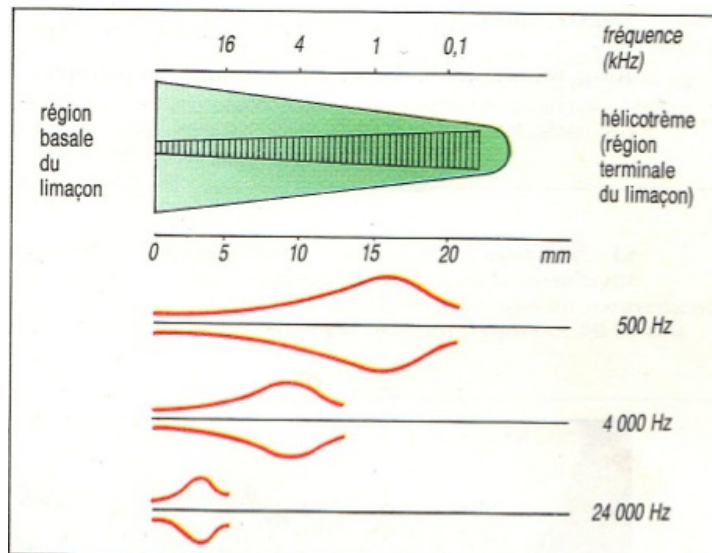


INNERVATION AFFÉRENTE ET EFFÉRENTE



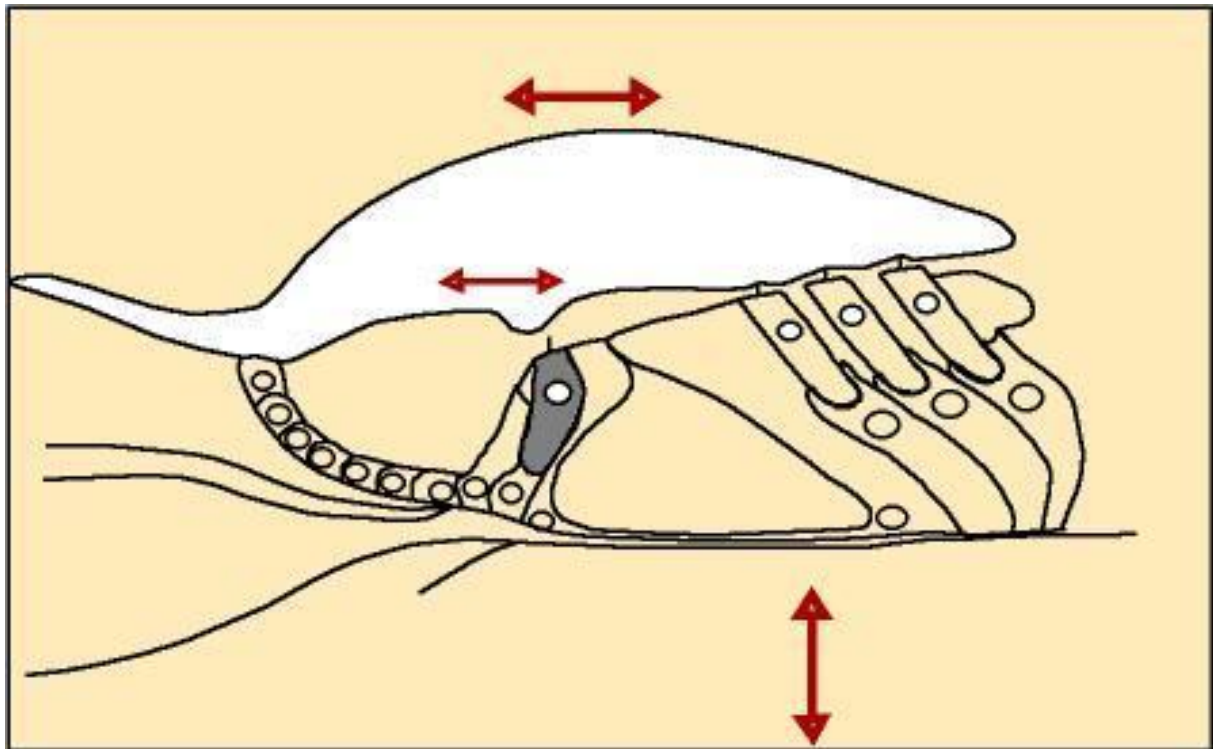
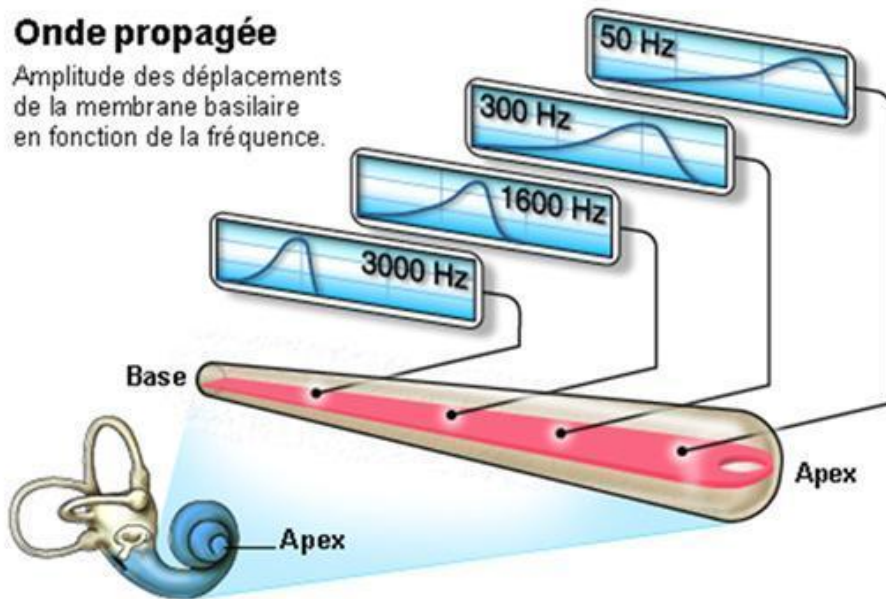


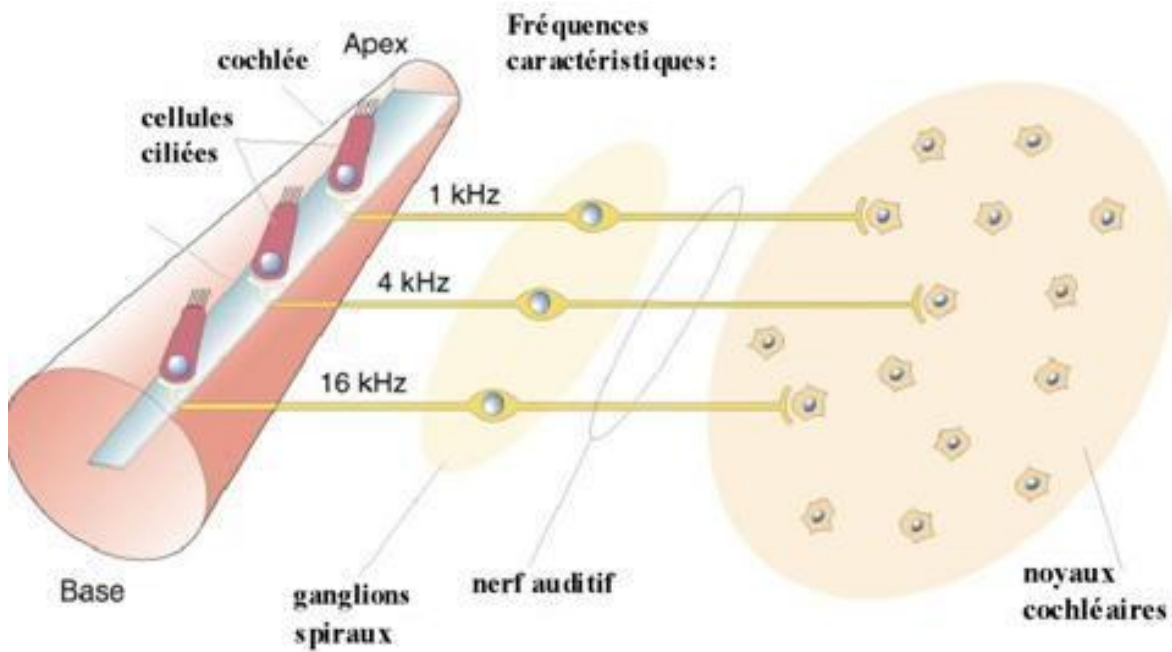
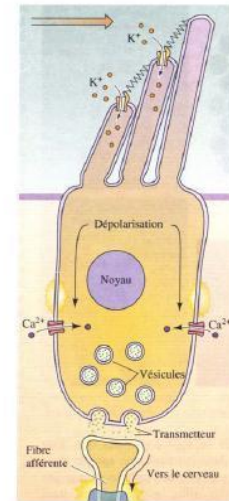
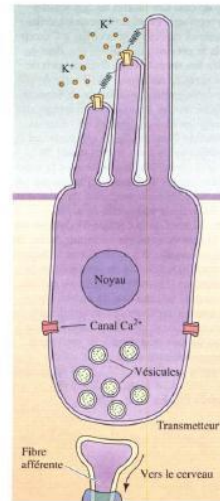
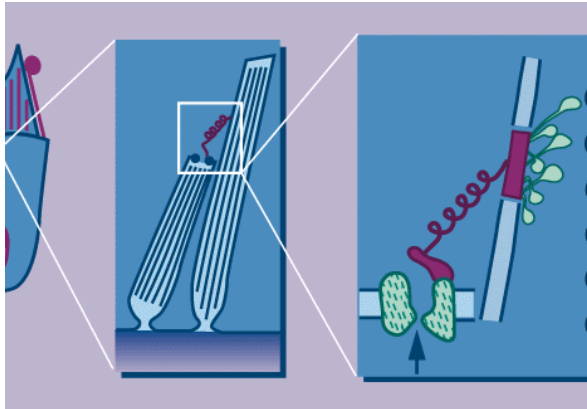


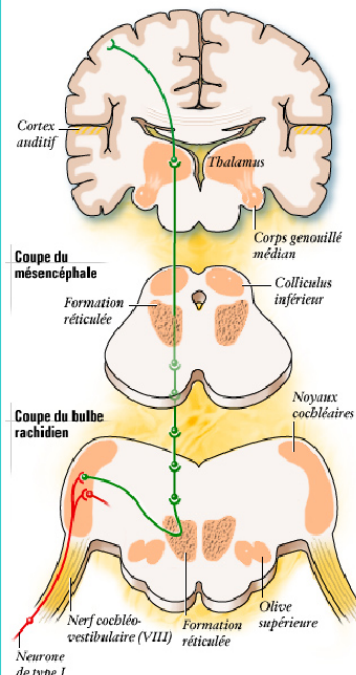
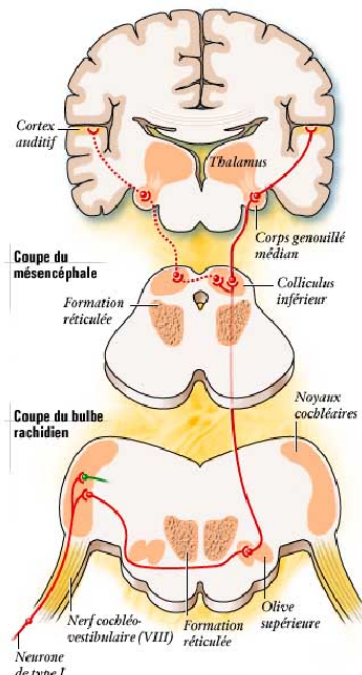


Onde propagée

Amplitude des déplacements
de la membrane basilaire
en fonction de la fréquence.

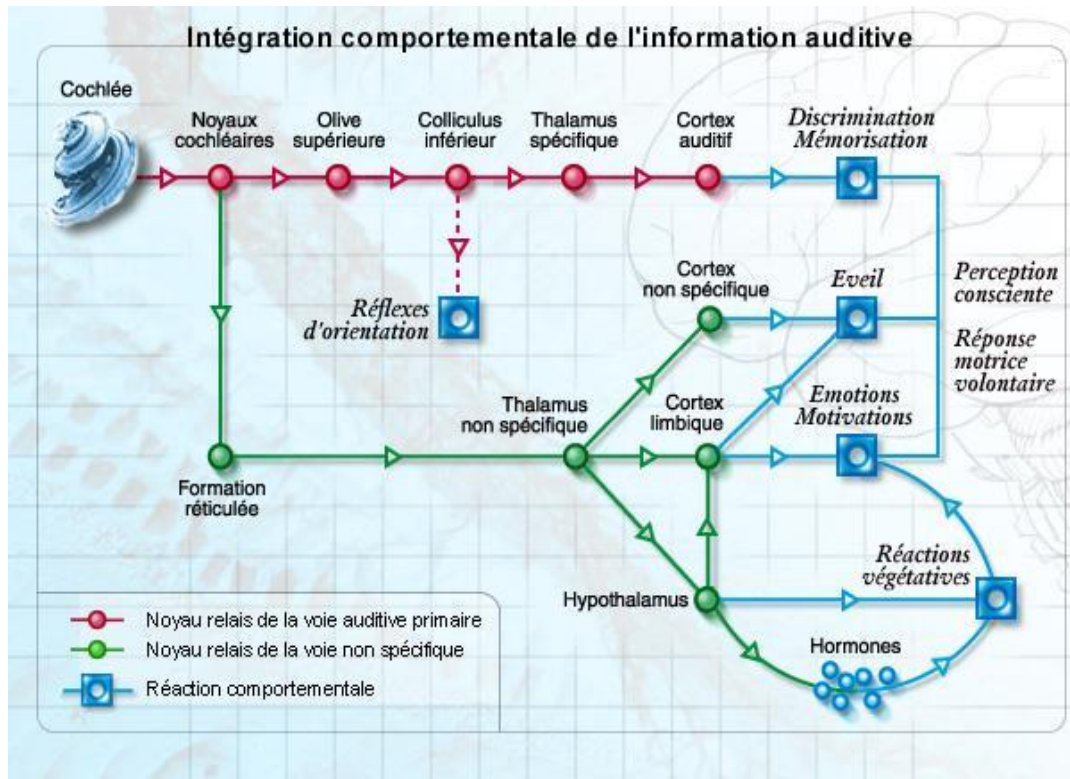


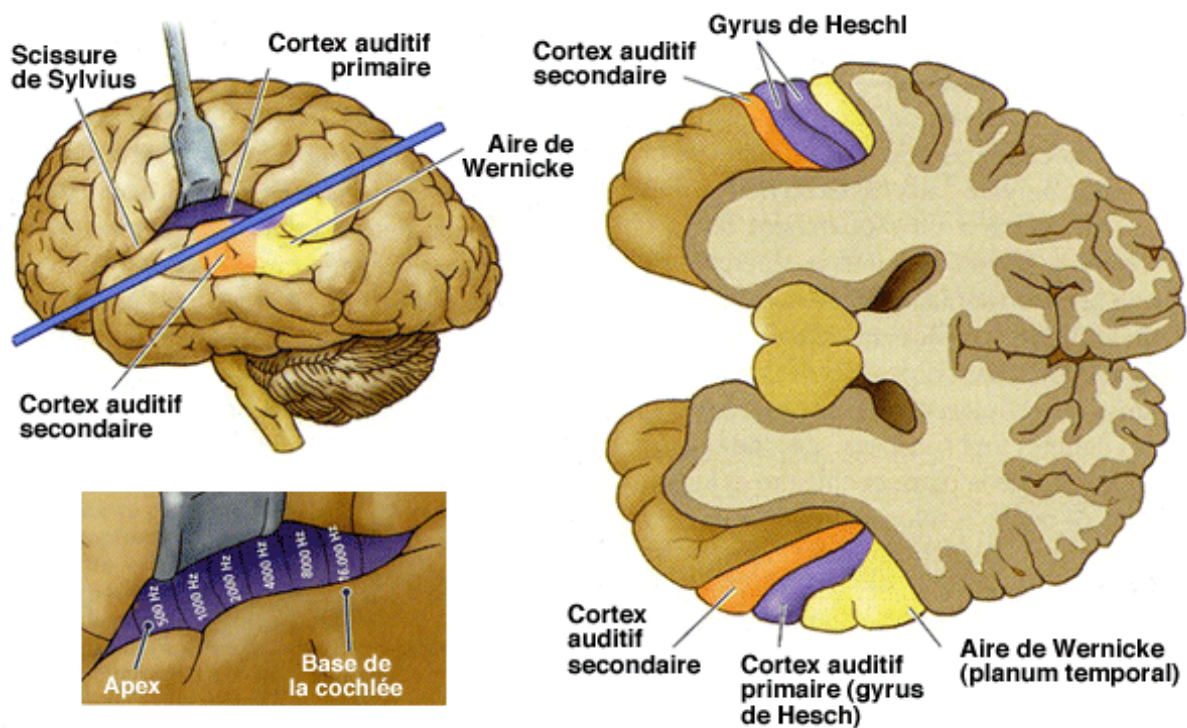
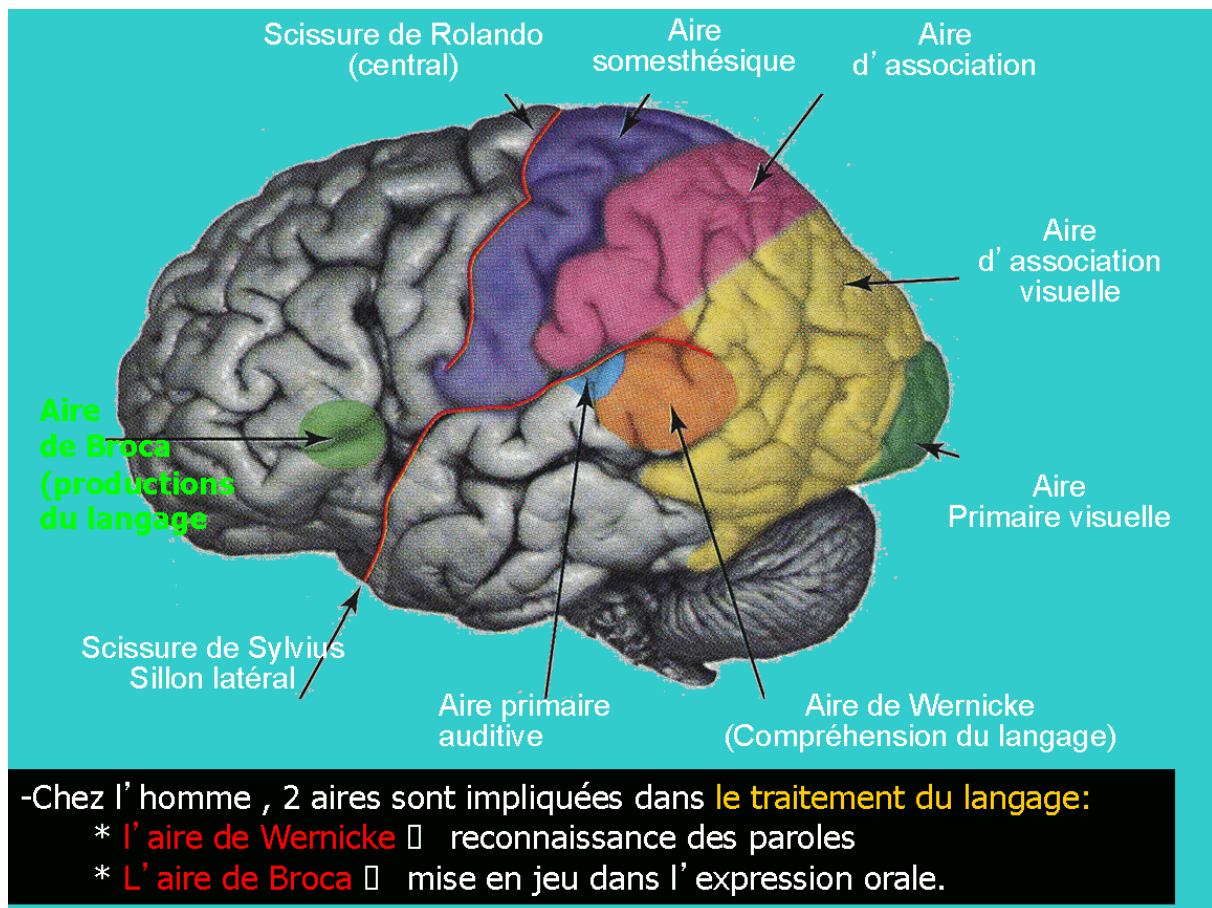


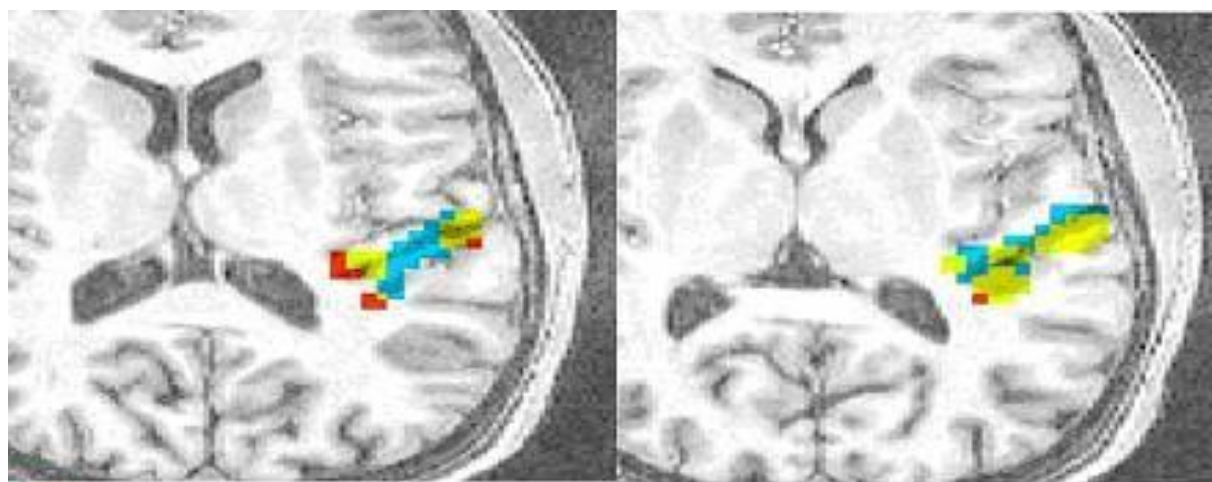
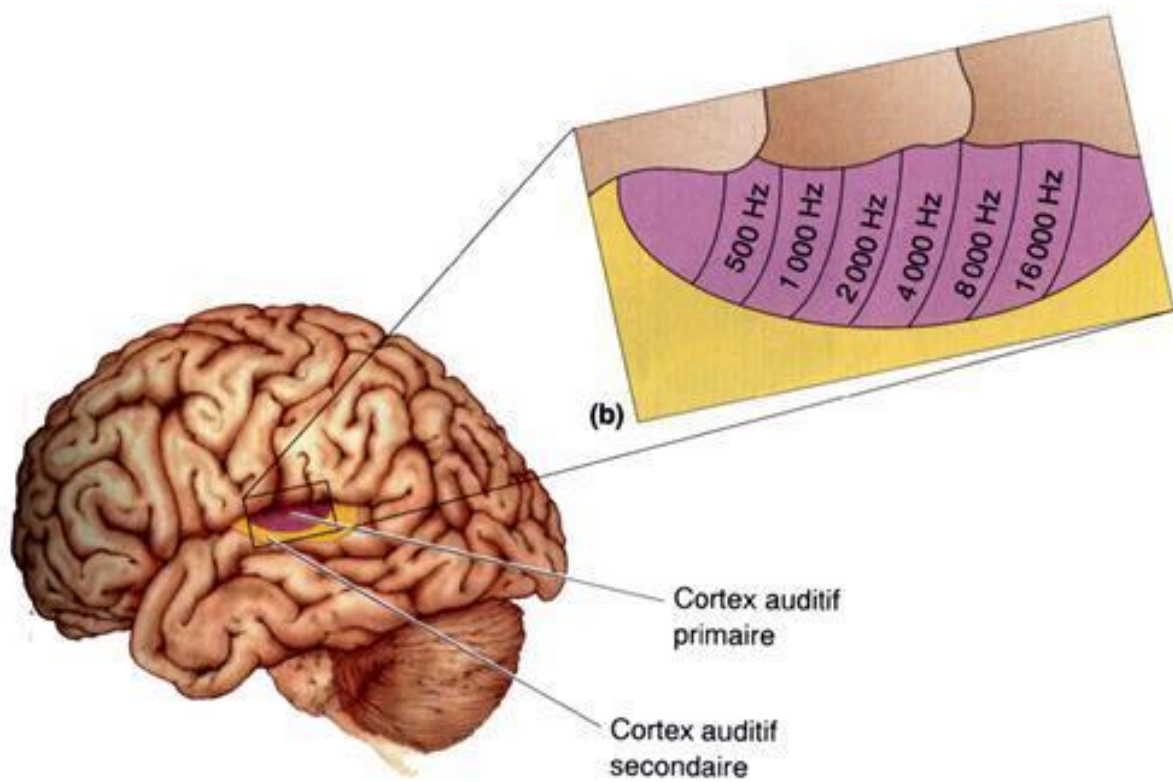


- **voies primaires** : (fibres myélinisées) → **cx primaire** (message codé par la cochlée)

- **voie non primaire** : Au niveau du n. cochléaire, des petites fibres rejoignent la **voie réticulée ascendante** → **Cx polysensoriel** (sélection de l'information à traiter en priorité)







- Son aigu
- Son grave
- Intersection

