

# ORGANUM VESTIBULOCOCHLEARE

## Auris externa, media et interna

### Auris externa

Auricula  
Meatus acusticus externus  
Membrana tympani

### Auris media

Cavitas tympani  
Ossicula auditus  
Tuba auditiva

### Auris interna

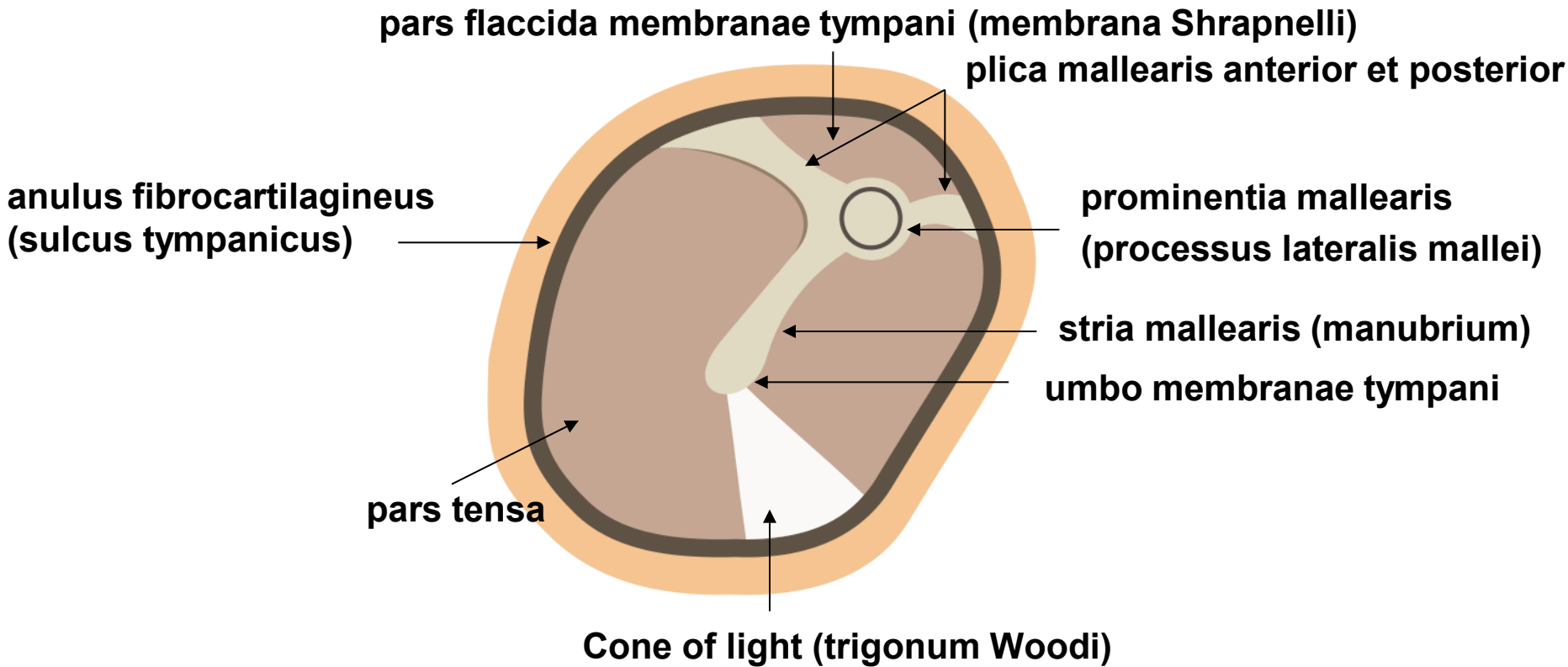
Labyrinthus osseus  
Labyrinthus membranaceus

# MEMBRANA TYMPANI

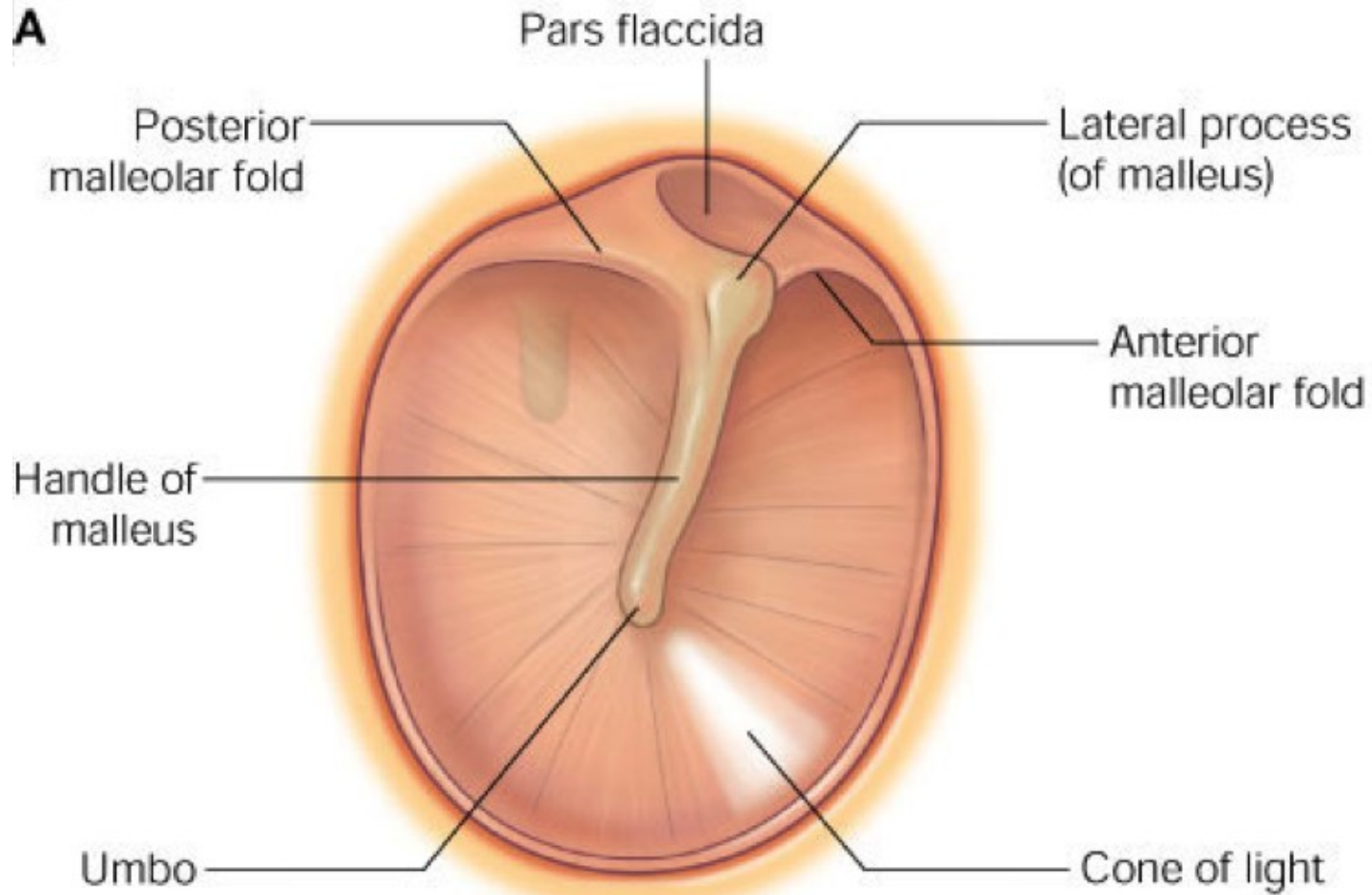
Middle connective tissue layer – stratum membranaceum

External layer - stratum cutaneum

Internal layer - stratum mucosum



**A**



## CAVITAS TYMPANI (eardrum)

### **paries membranaceus**

- bubínek

### **paries labyrinthicus**

- promontorium
- fenestra vestibuli
- fenestra cochleae

### **paries jugularis**

- apertura externa canaliculi tympanici

### **paries tegmentalis**

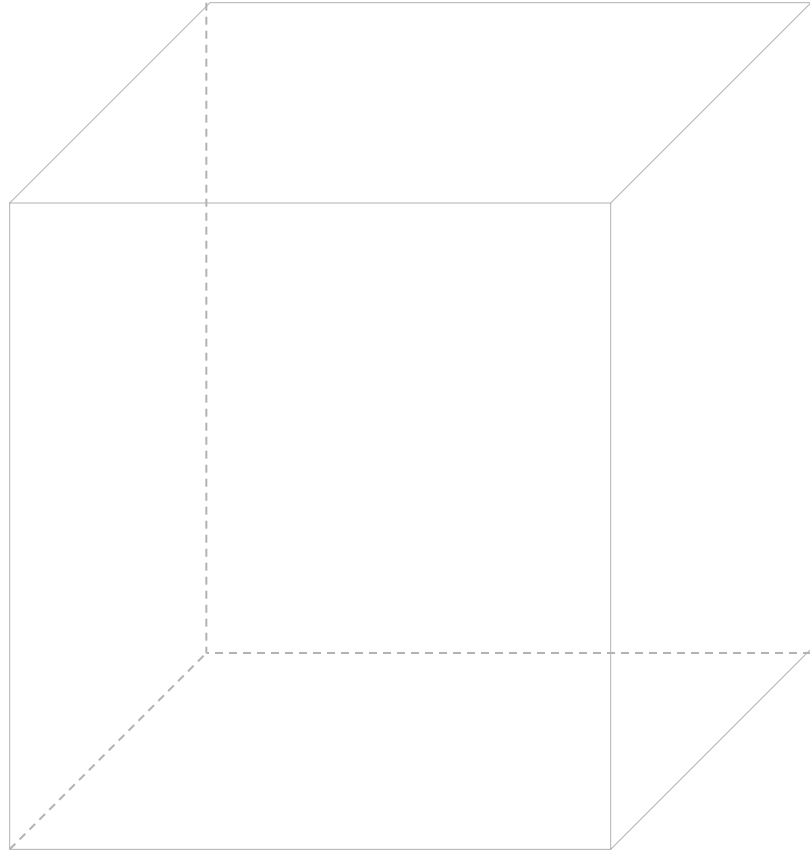
- hiatus canalis nervi petrosi minoris

### **paries caroticus**

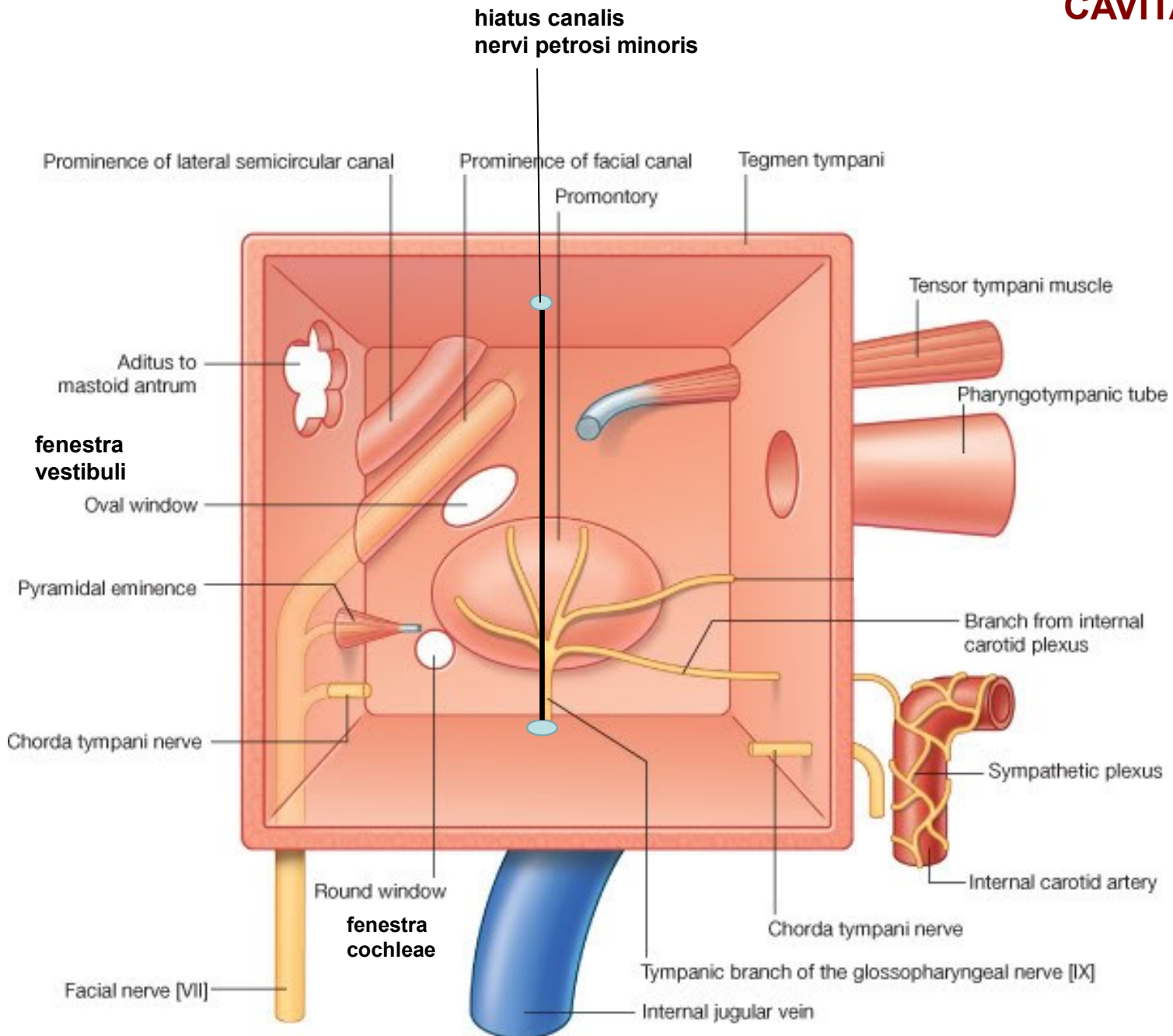
- canaliculi caroticotympanici
- canalis musculotubarius
  - semicanalis musculi tensori tympani*
  - semicanalis tubae auditivae*

### **paries mastoideus**

- antrum mastoideum



# CAVITAS TYMPANI



# OSSICULA AUDITUS

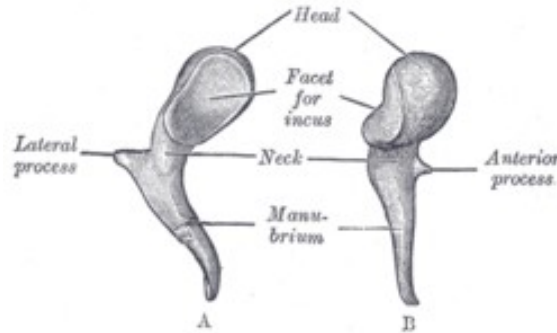
## Malleus

Caput mallei

Manubrium mallei

Processus lateralis

Processus anterior



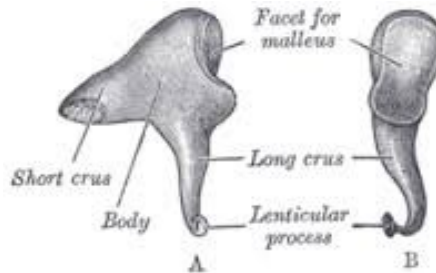
### Art. incudomallearis

## Incus

Corpus incudis

Crus longum

Crus breve



### Art. incudostapedialis

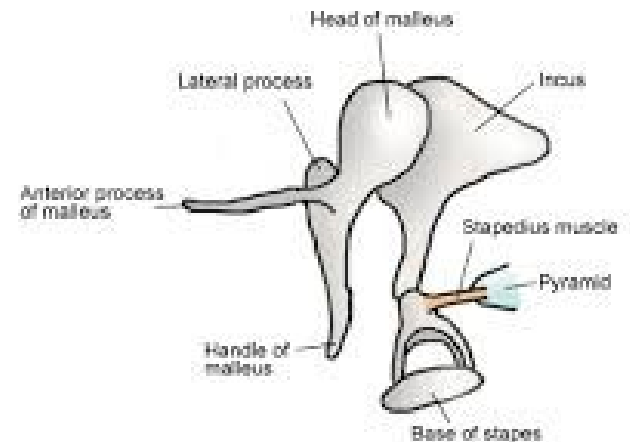
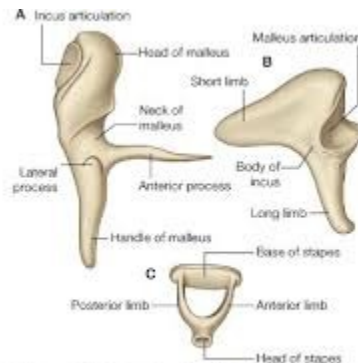
## Stapes

Caput stapedis

Crus anterius

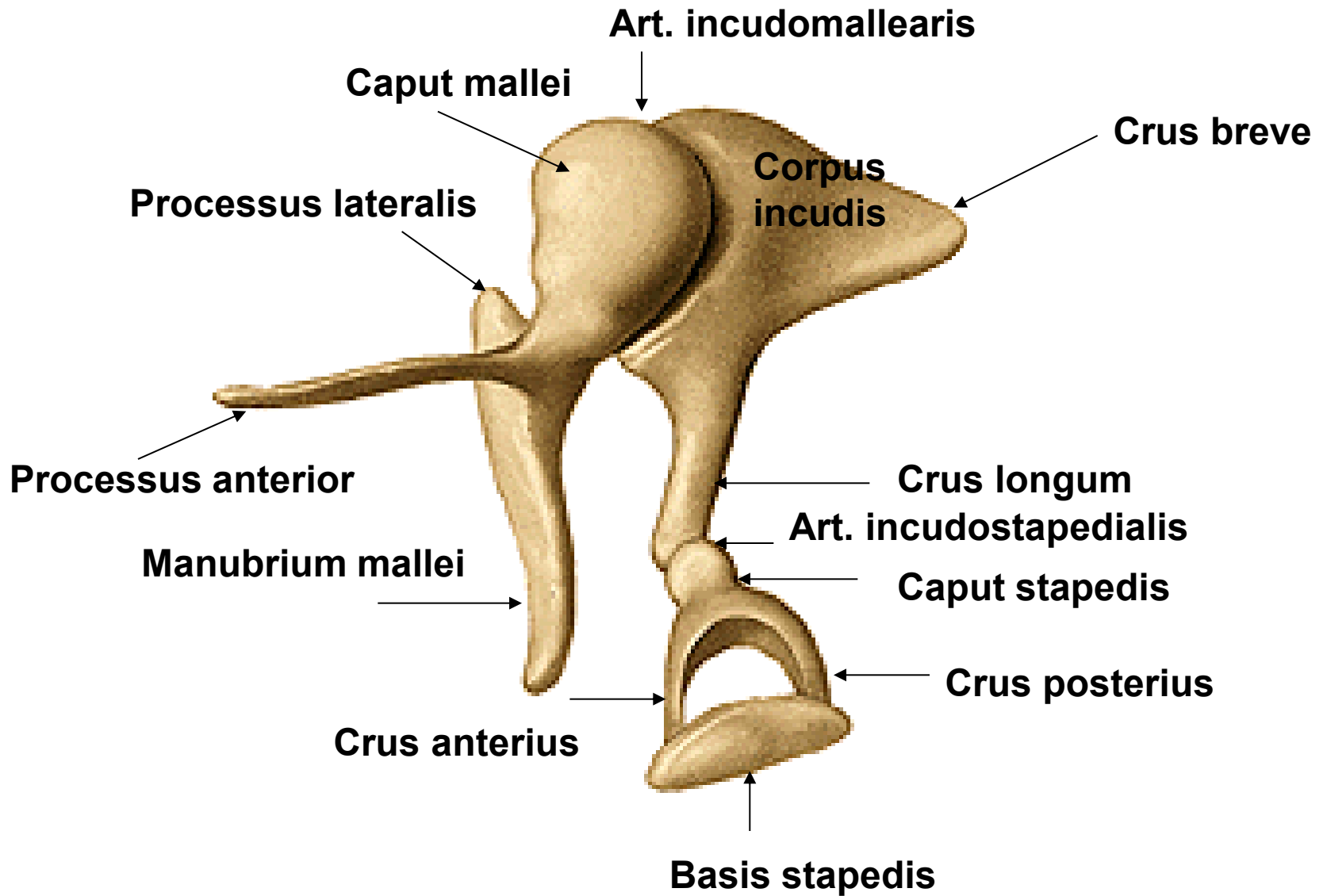
Crus posterius

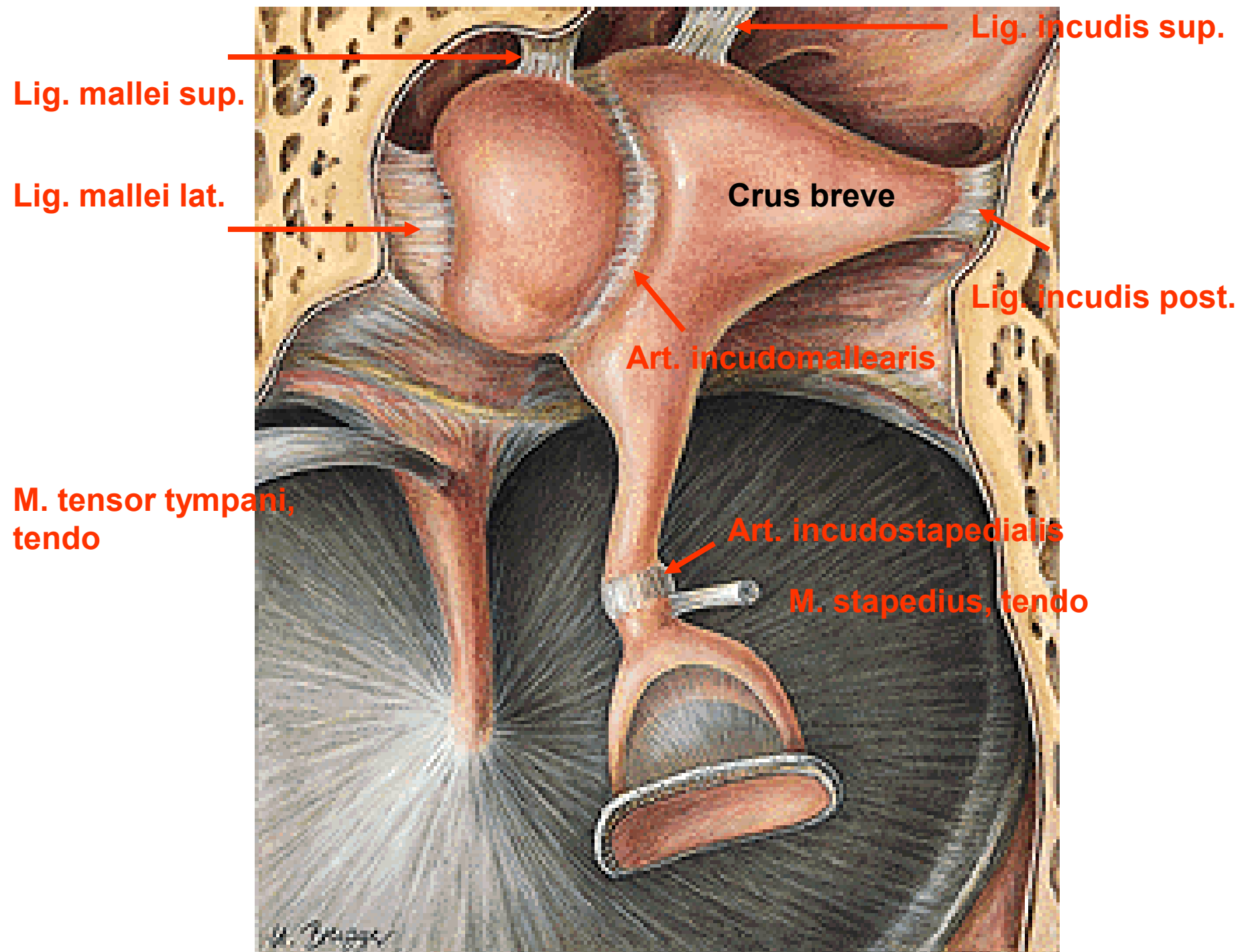
Basis stapedis



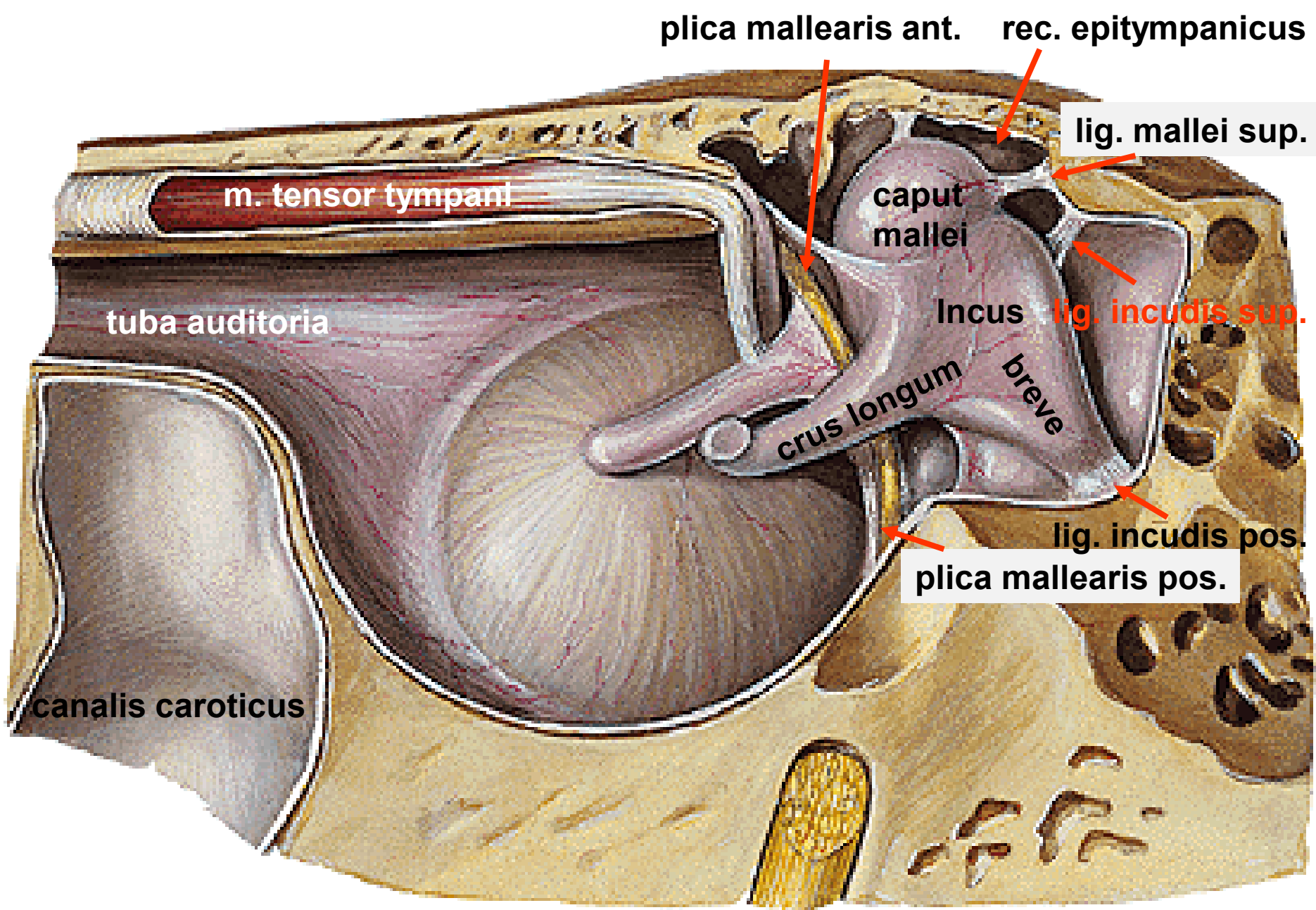
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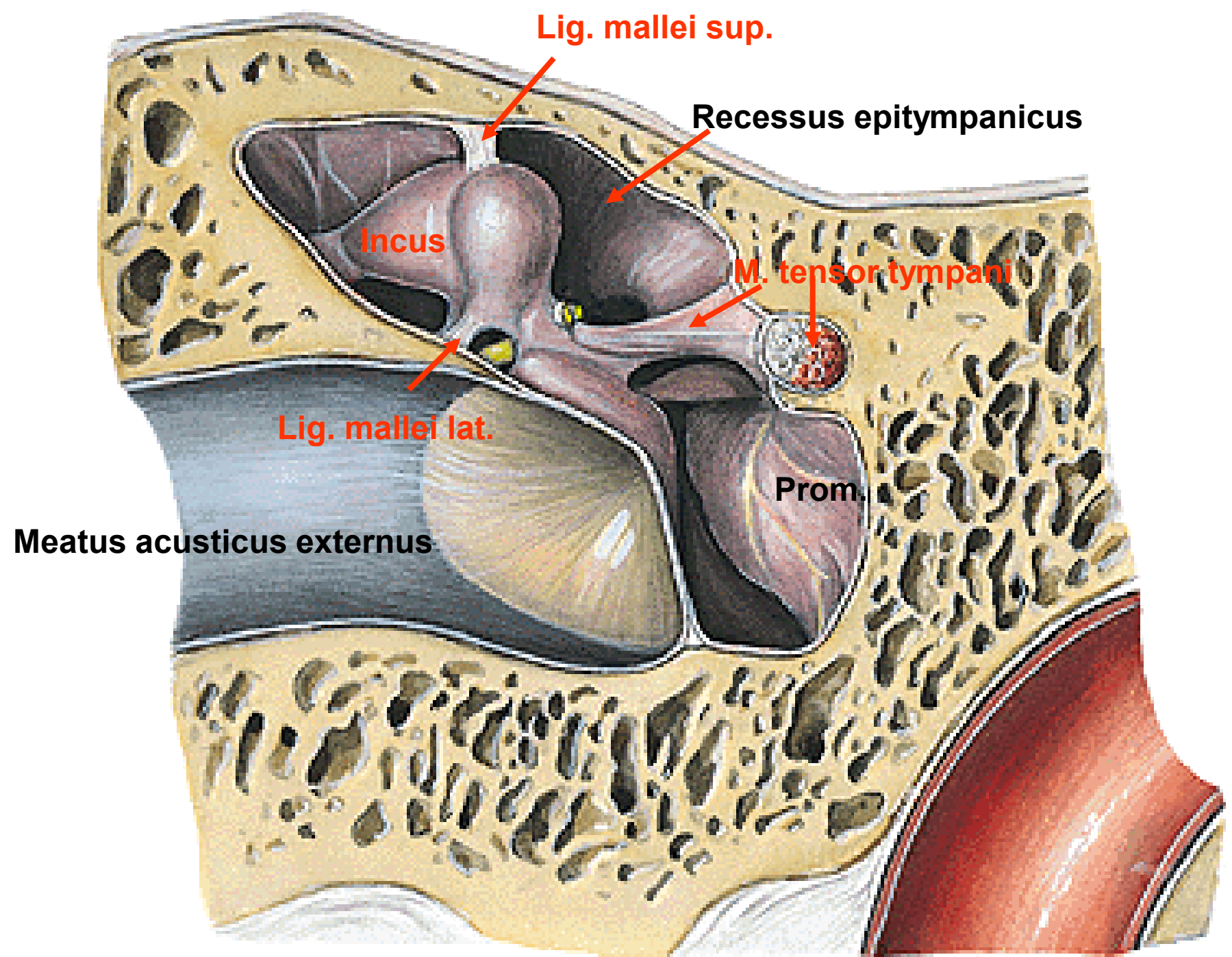
# OSSICULA AUDITUS

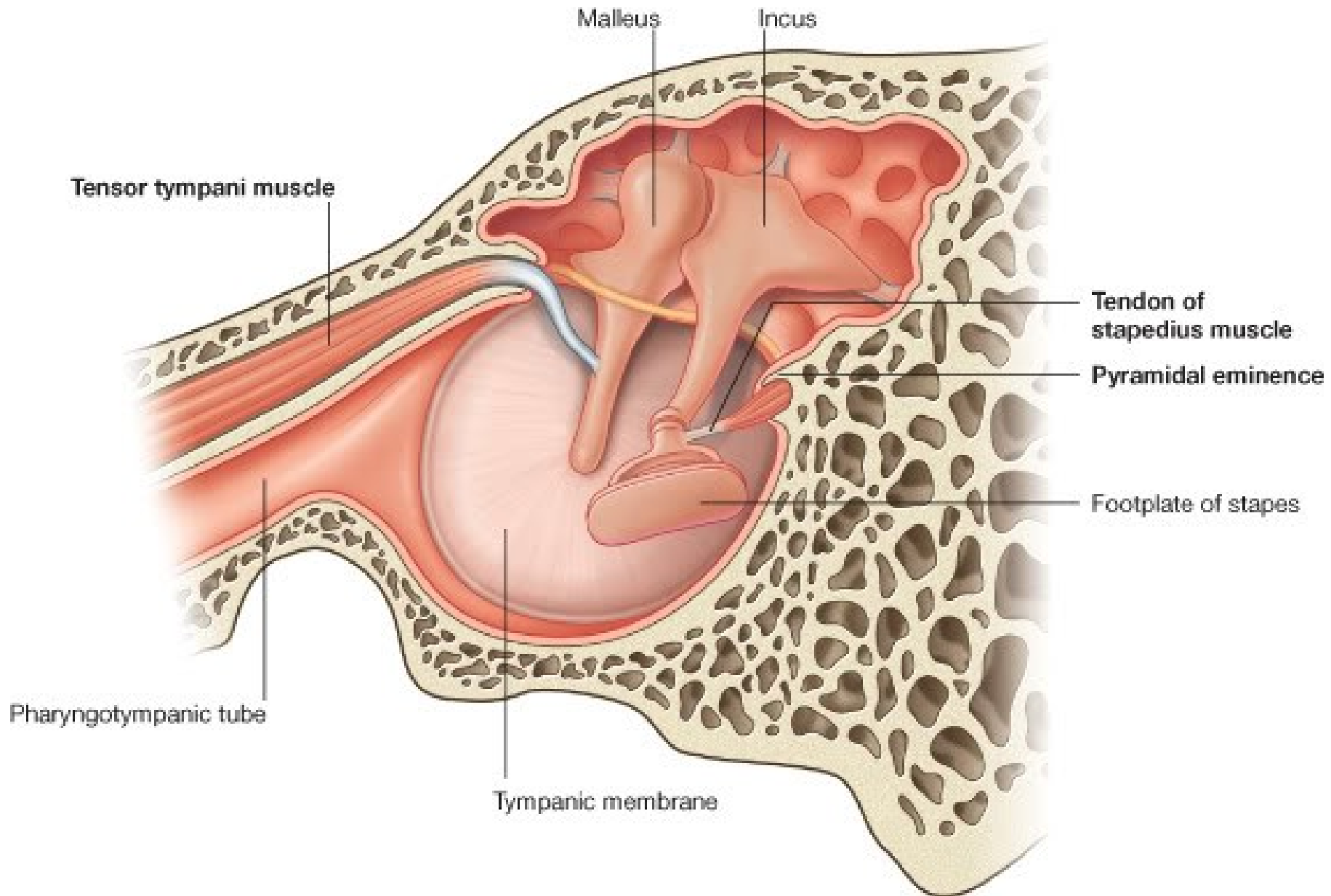


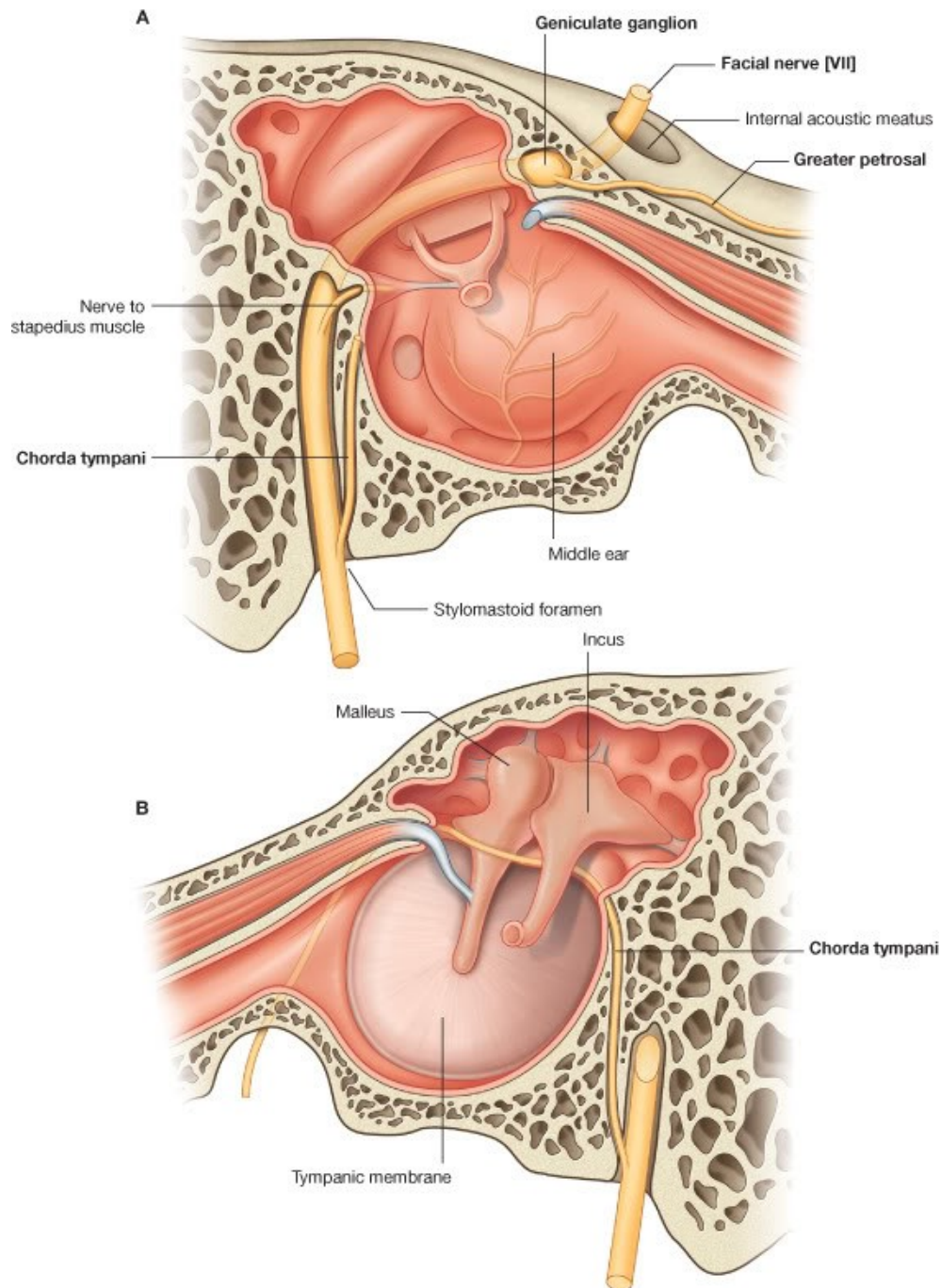












## TUBA AUDITIVA, EUSTACHIAN TUBE

**pars ossea tubae auditivae (10mm)**

**ostium tympanicum tubae auditivae**

**pars cartilaginea tubae auditivae (25 mm)**

lamina medialis et lateralis

**ostium pharyngeum tubae auditivae**

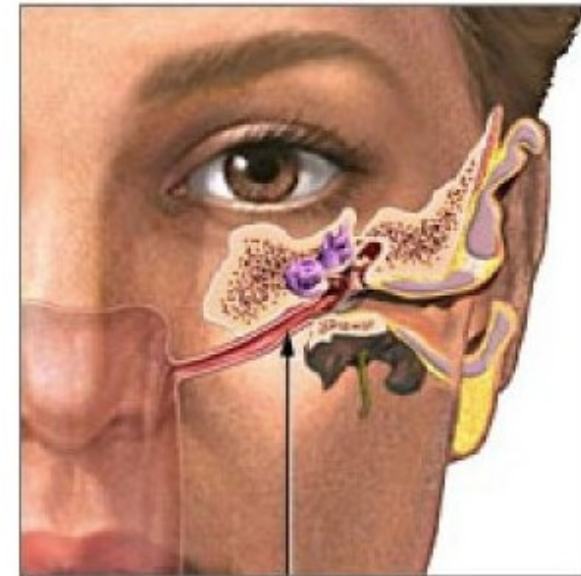
torus tubarius

lymph tissue (tonsilla tubaria)

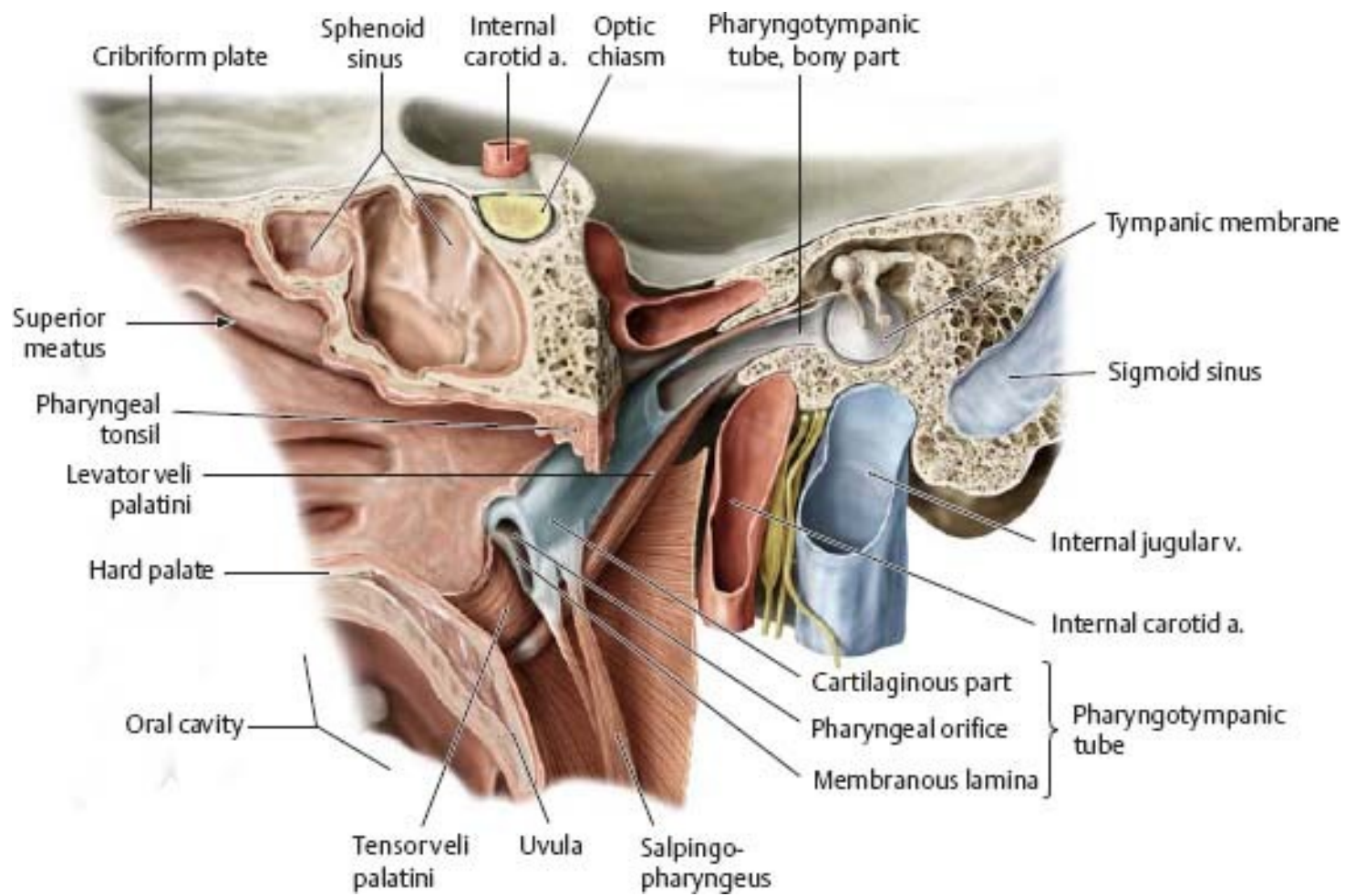
Infant



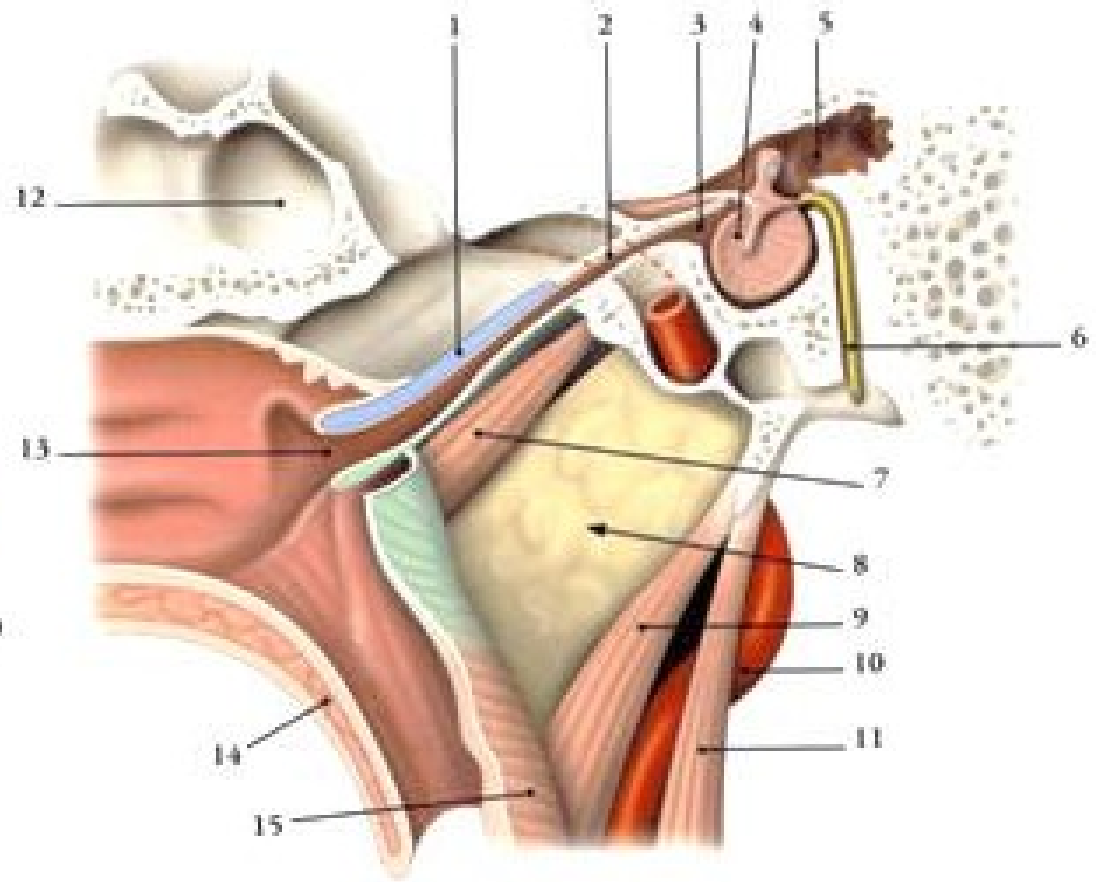
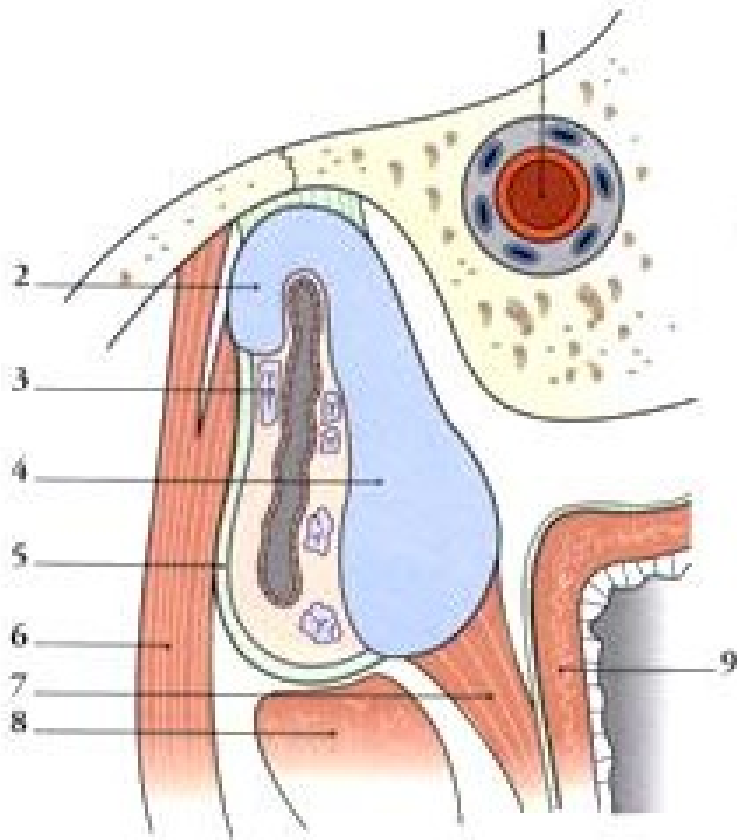
Adult



Eustachian tube

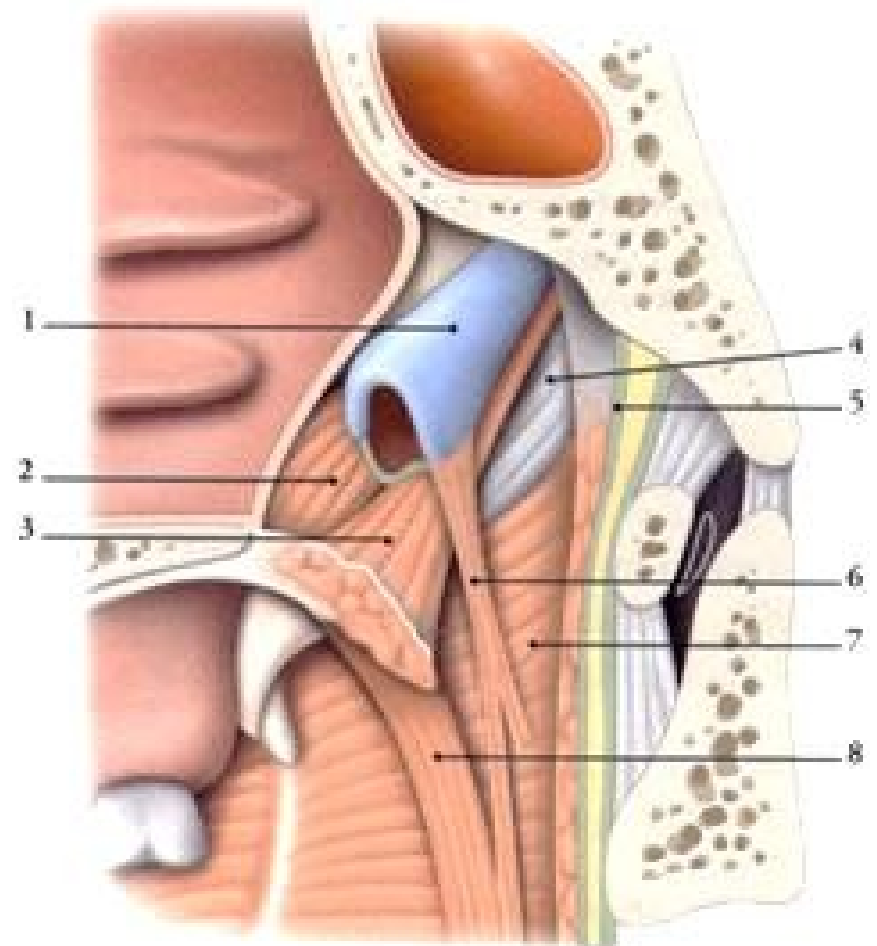
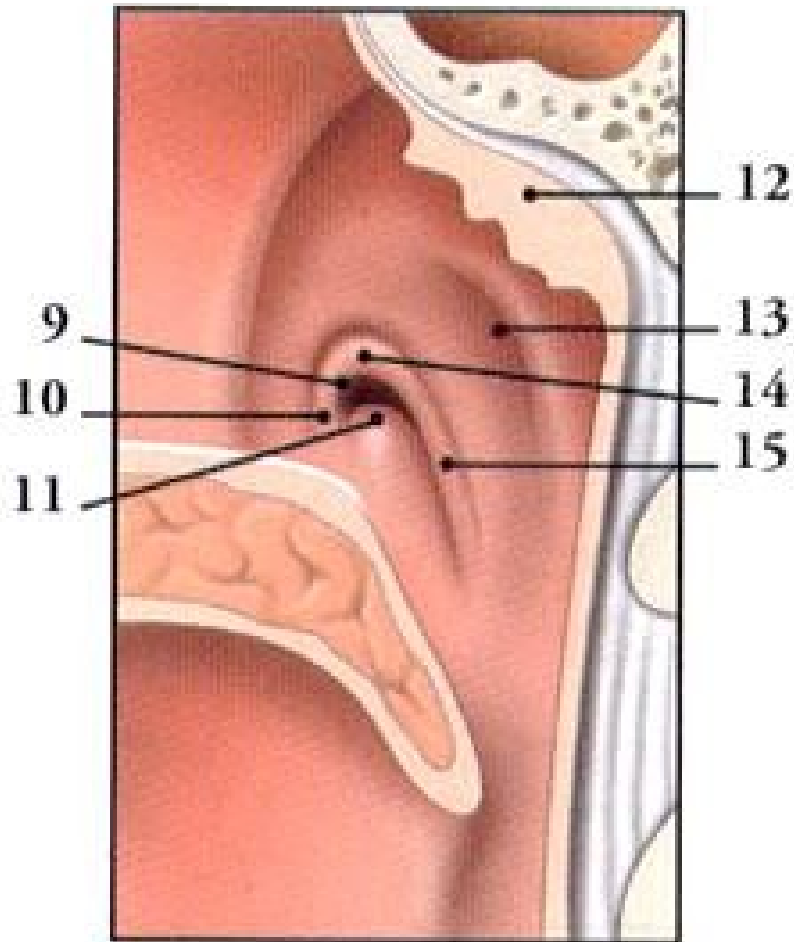


# TUBA AUDITIVA, EUSTACHIAN TUBE



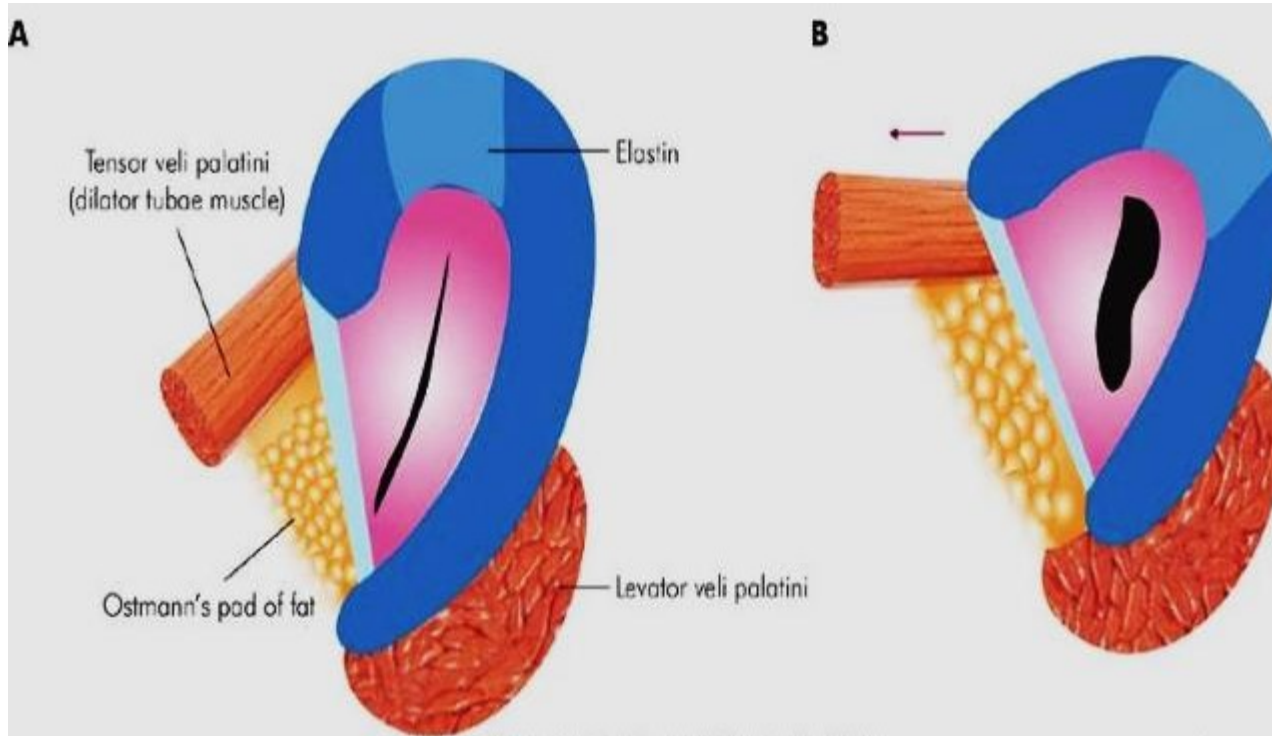
- 1- a. carotis int.;
- 2-lamina lateralis et 4-medialis;
- 6 – m. tensor veli palatini;
- 7- m. salpingopharyngeus;
- 8-m. levator veli palatini;
- 9-nasopharynx;

## TORUS TUBARIUS, torus levatorius, plica salpingopharyngea



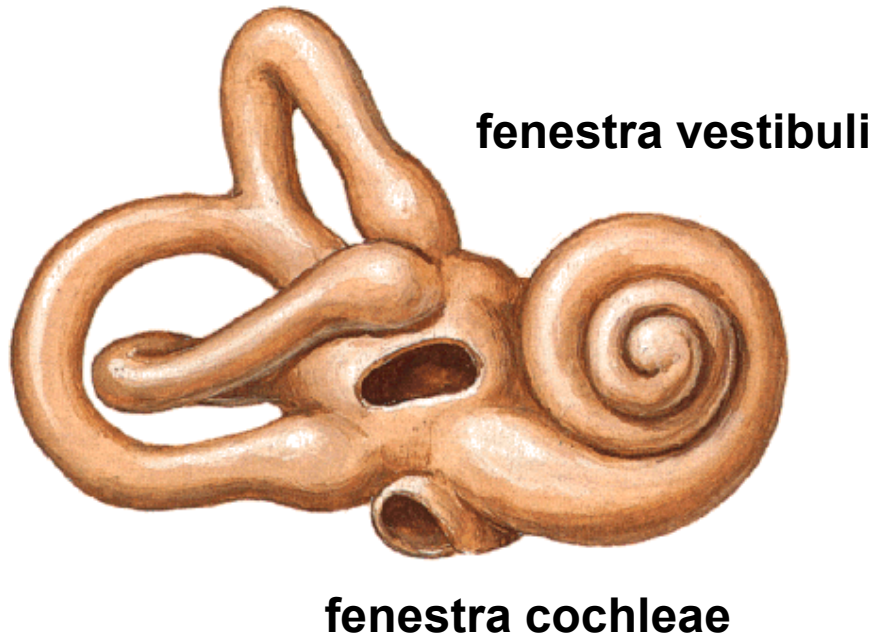
2- m. tensor v.p.; 3- m.levator v.p;  
6- m. salpingopharyngeus





# AURIS INTERNA - LABYRINTHUS OSSEUS

Right Osseous Labyrinth  
Anterolateral View



- vestibulum

-canales semicirculares ossei

*anterior*

*posterior*

*crus communae*

*ampulla ossea*

**lateralis**

*crus simplex*

- cochlea

# COCHLEA

**modiolus**

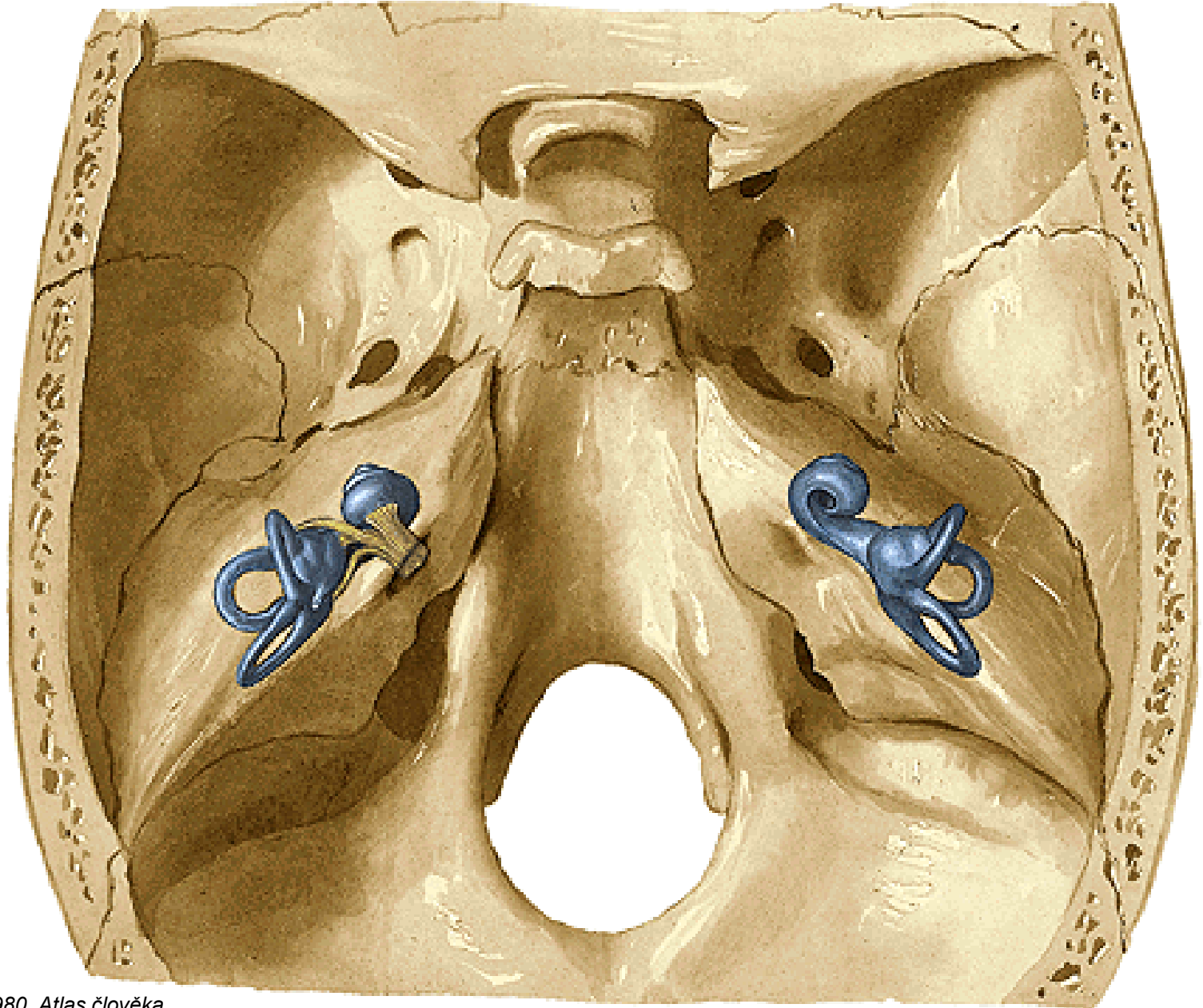
**lamina spiralis ossea**

**canalis spiralis osseus**

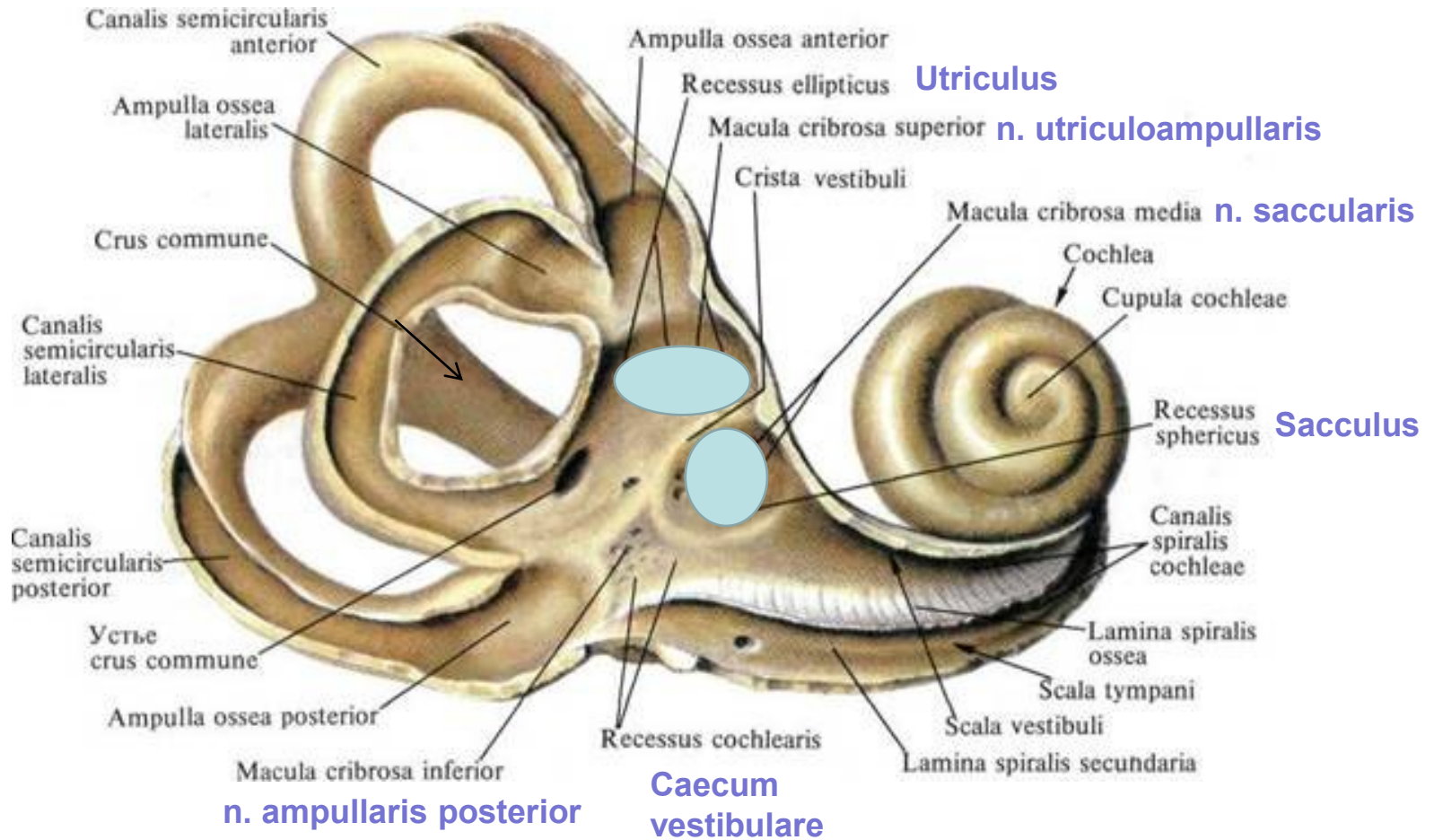
**canales longitudinales**

**tractus spiralis foraminosus**

# AURIS INTERNA



# VESTIBULUM



# **LABYRINTHUS MEMBRANACEUS**

## **labyrinthus vestibularis**

- utriculus et sacculus
- d. utriculosaccularis → d. endolymphaticus (aqueductus vestibuli) → saccus endolymph.
- ductus semicirculares

***macula statica utriculi et sacculi***

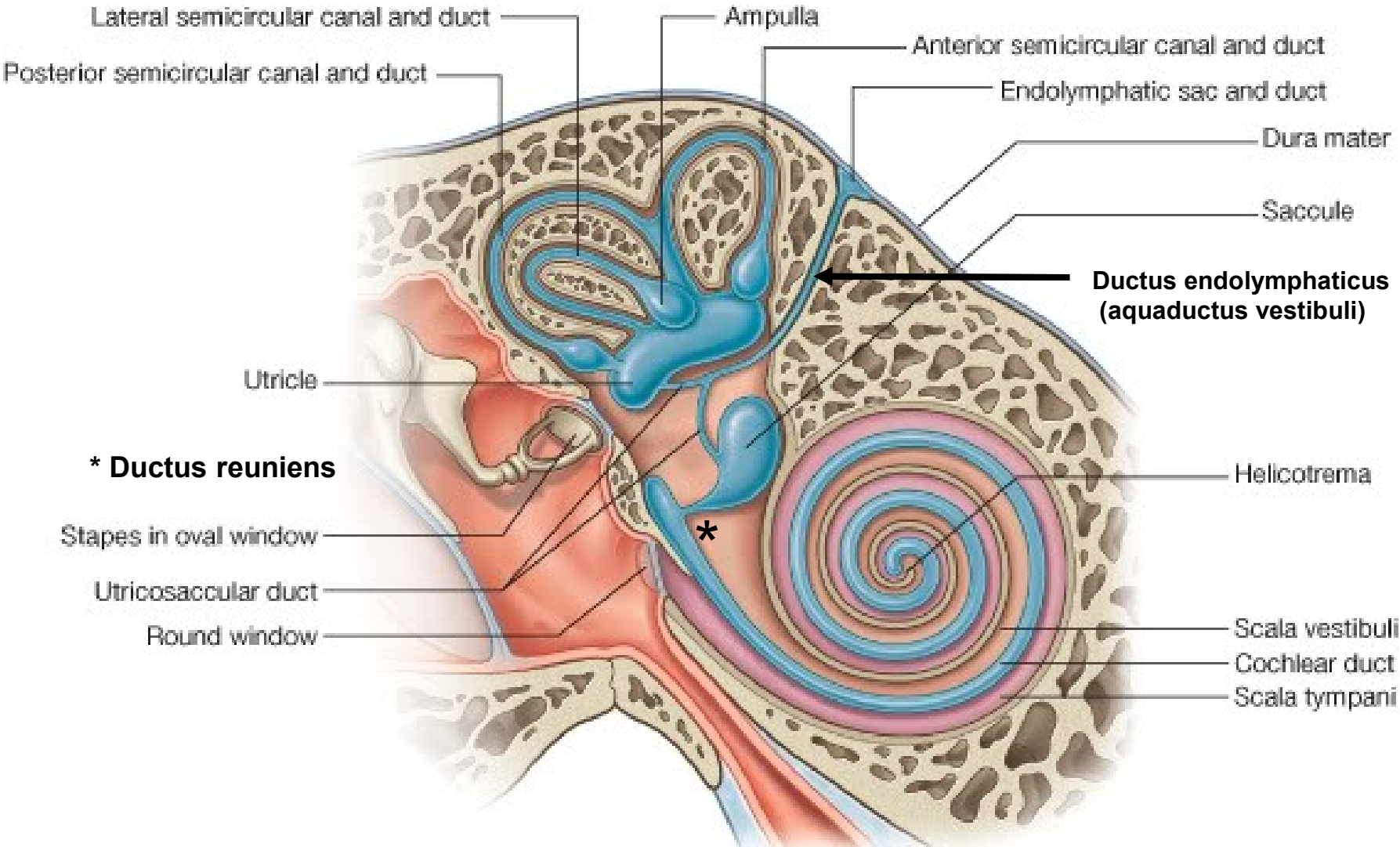
***cristae ampullares***

## **labyrinthus cochlearis**

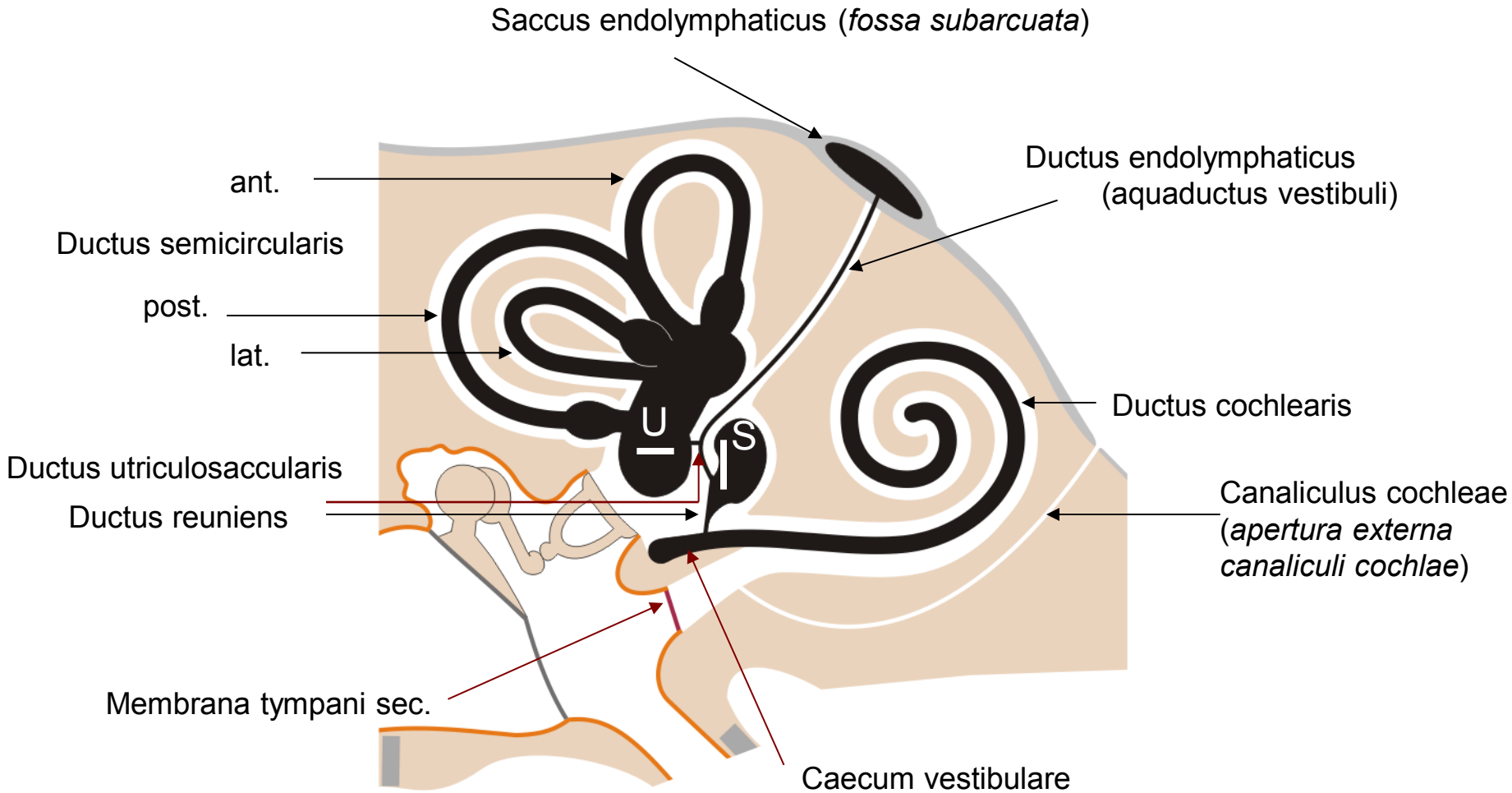
- ductus cochlearis    *lamina basilaris*  
                              *membrana vestibularis Reissneri*  
                              *wall of bony canal*

***organum spirale Corti    membrana tectoria***

# LABYRINTHUS MEMBRANACEUS

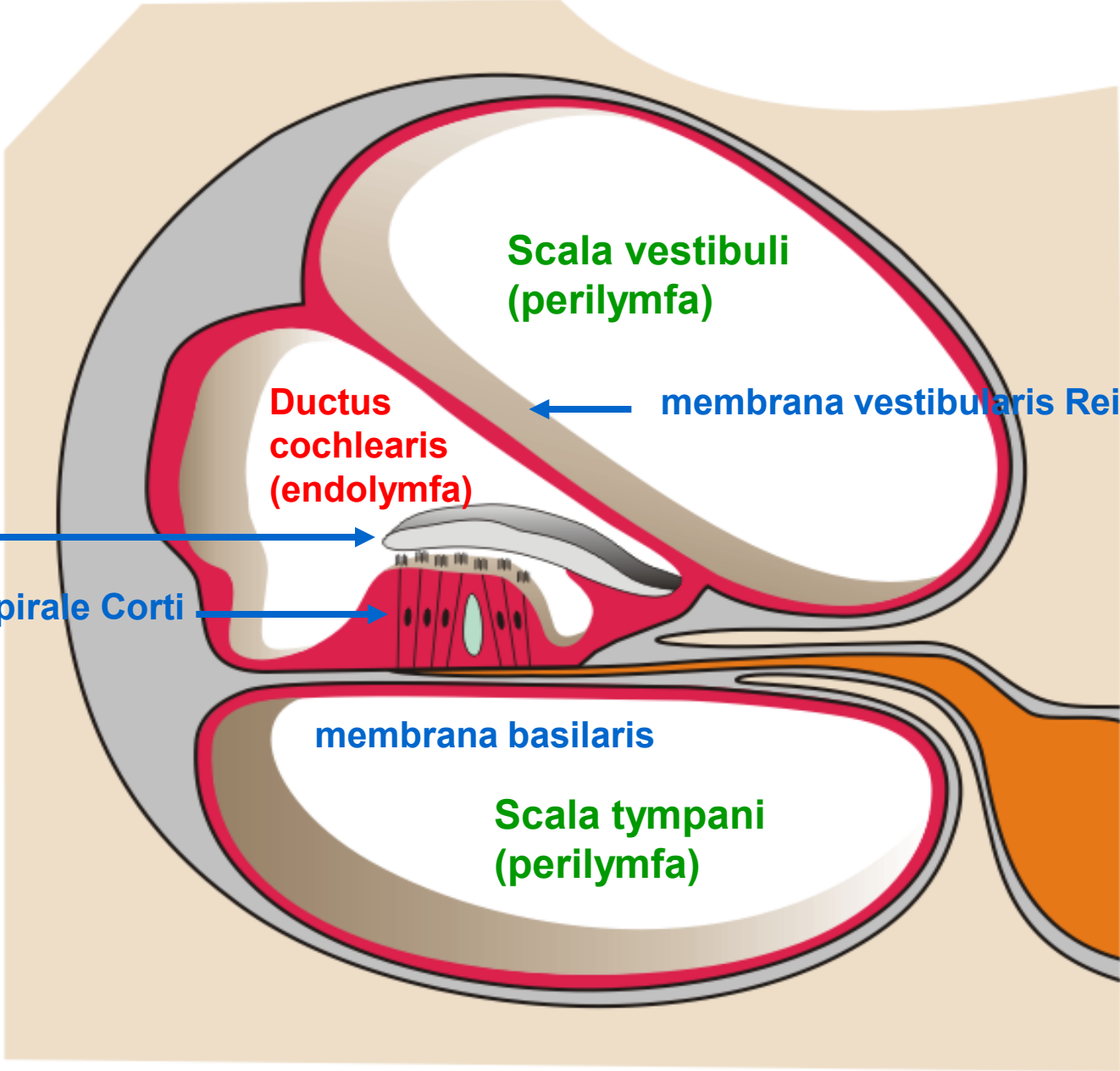


# LABYRINTHUS MEMBRANACEUS





# DUCTUS COCHLEARIS



membrana tectoria

organum spirale Corti

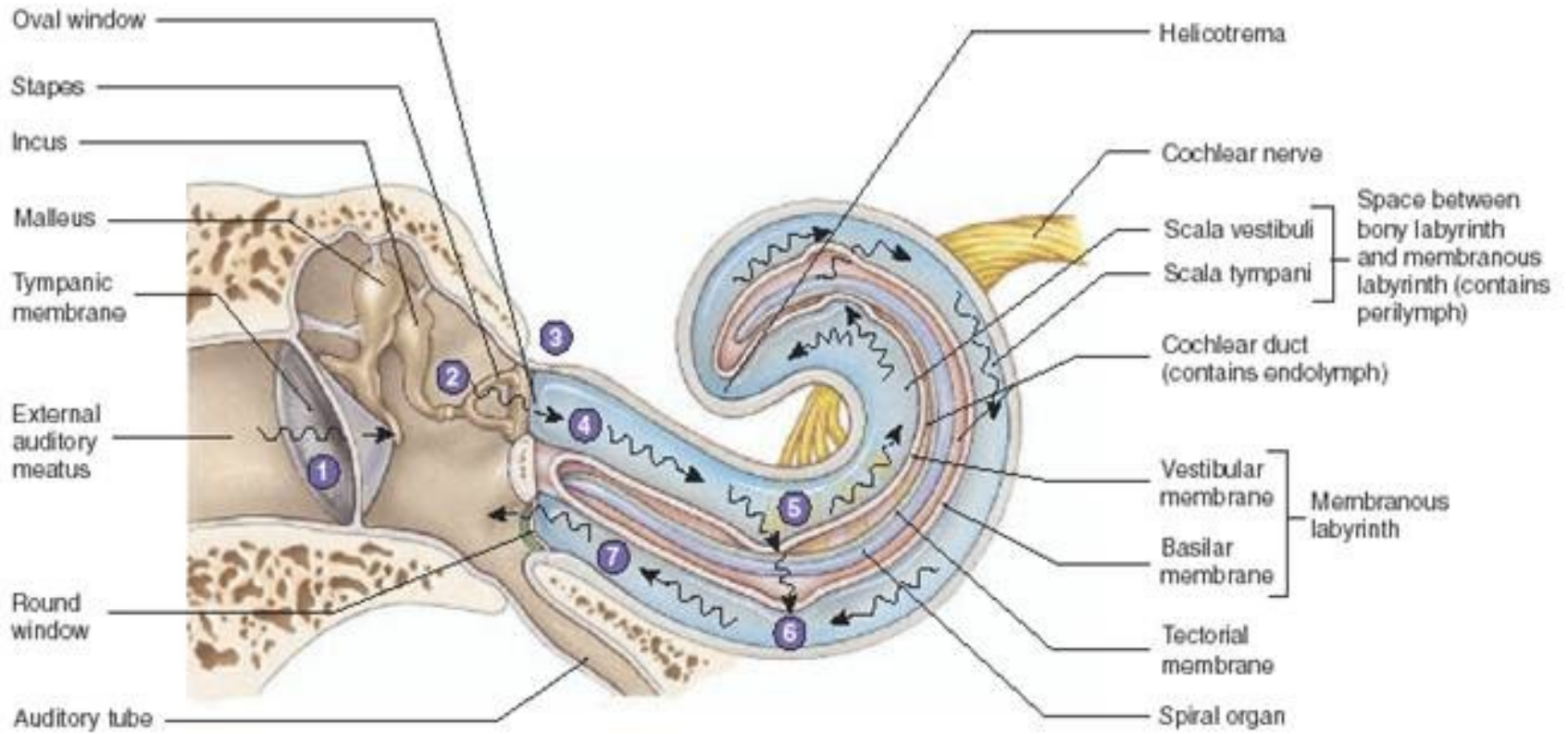
Ductus cochlearis (endolymfa)

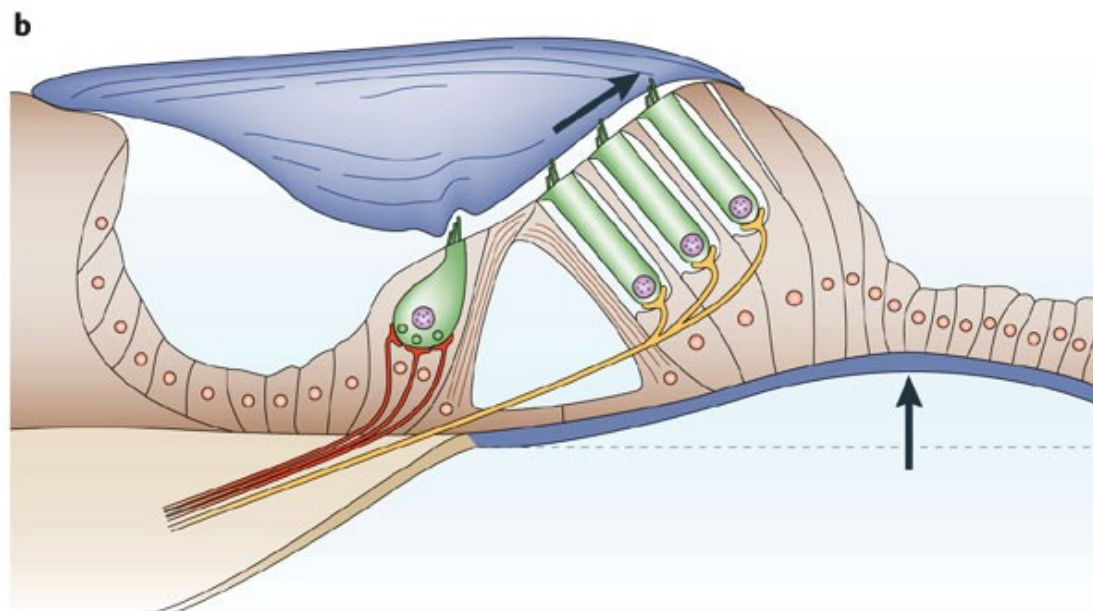
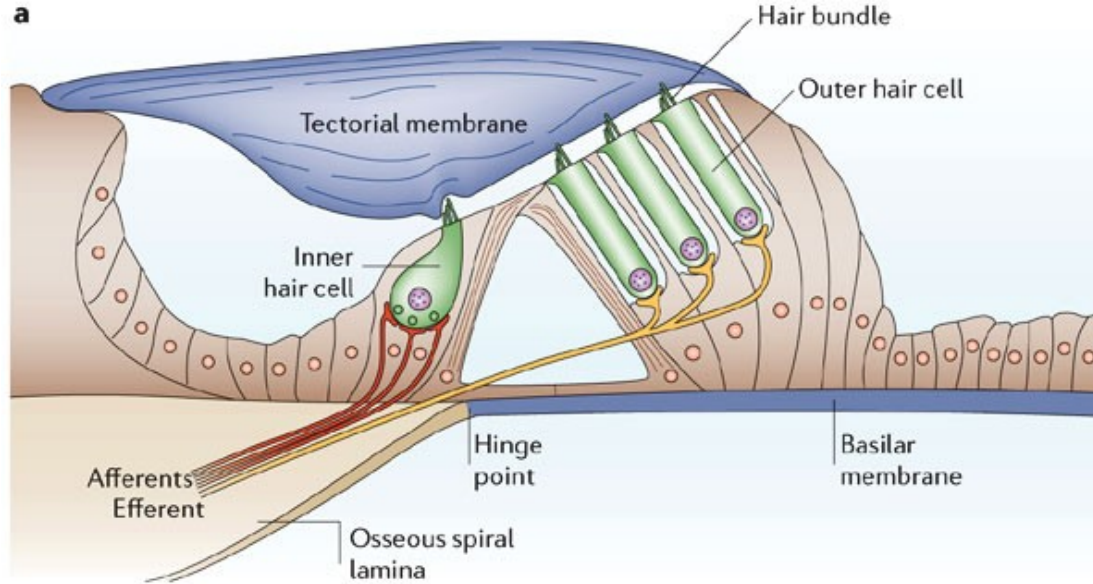
Scala vestibuli (perilymfa)

membrana vestibularis Reissneri

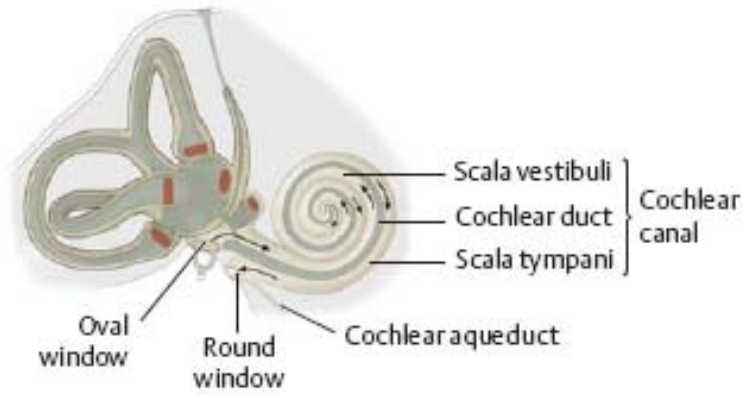
membrana basilaris

Scala tympani (perilymfa)

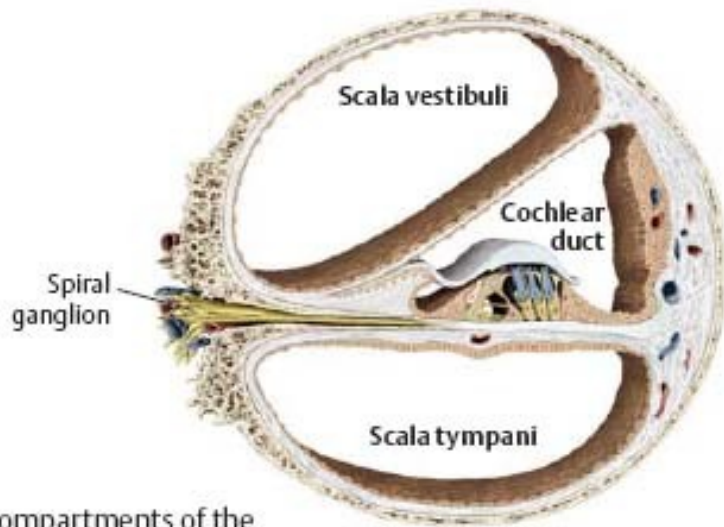




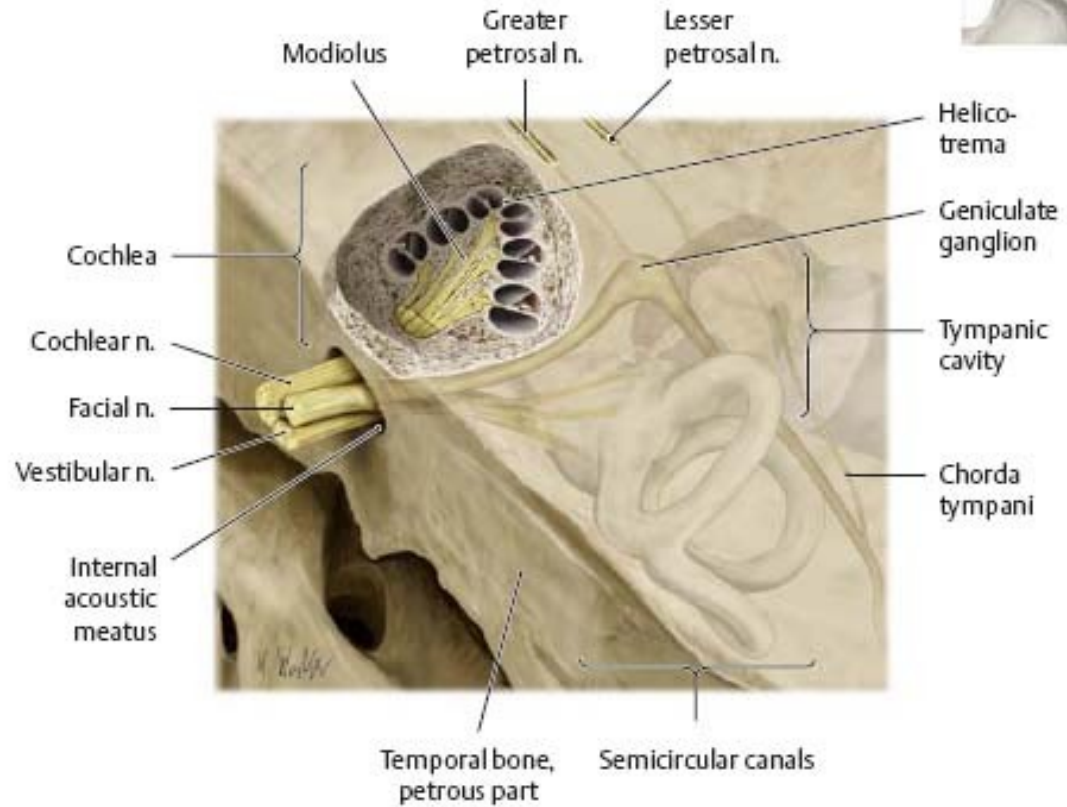
# NERVUS VESTIBULOCOCHLEARIS



A Schematic.

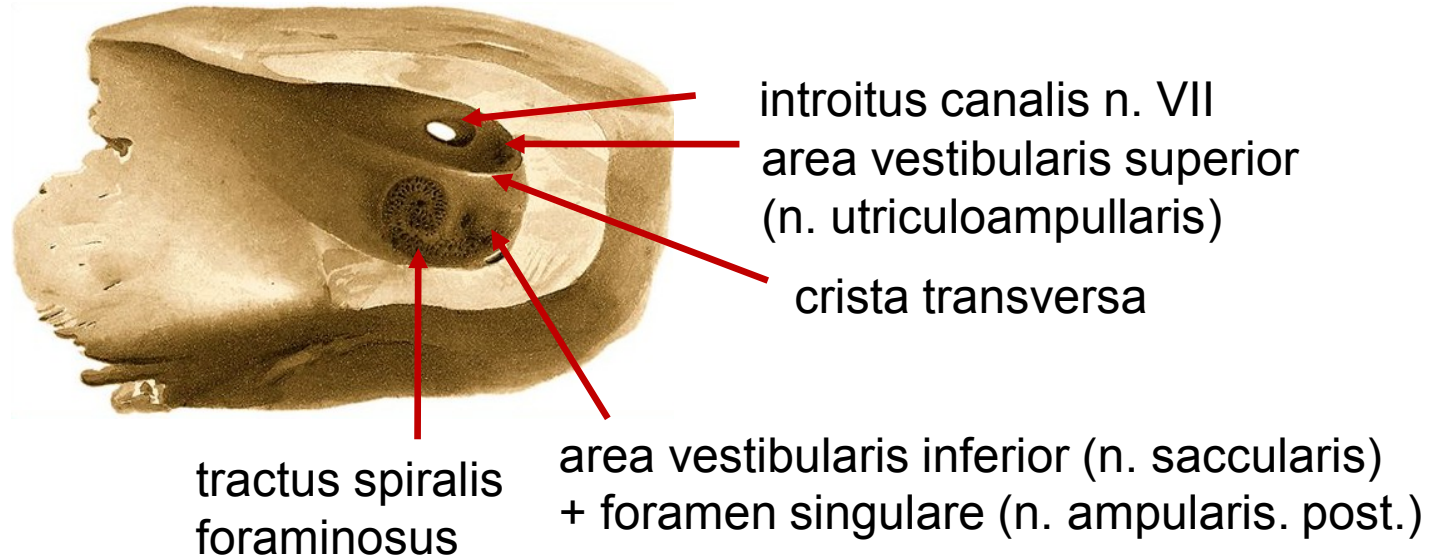
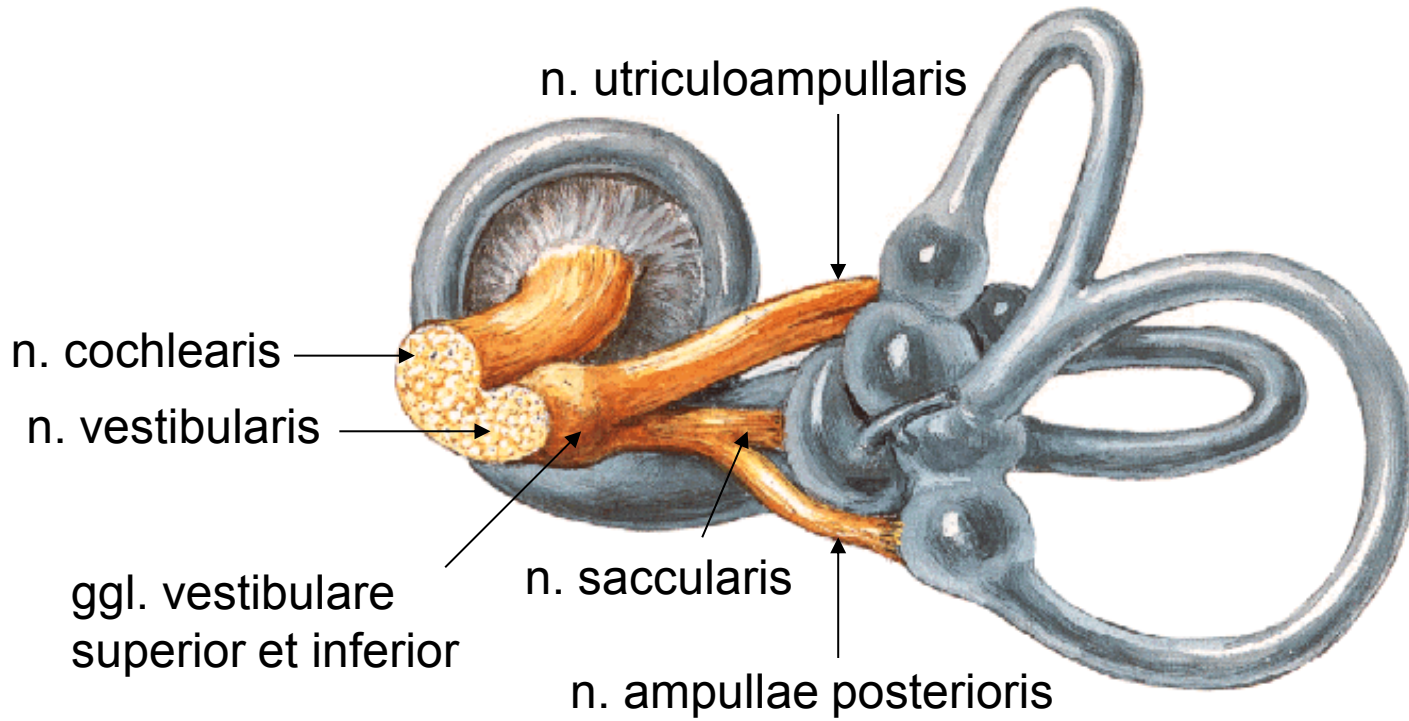


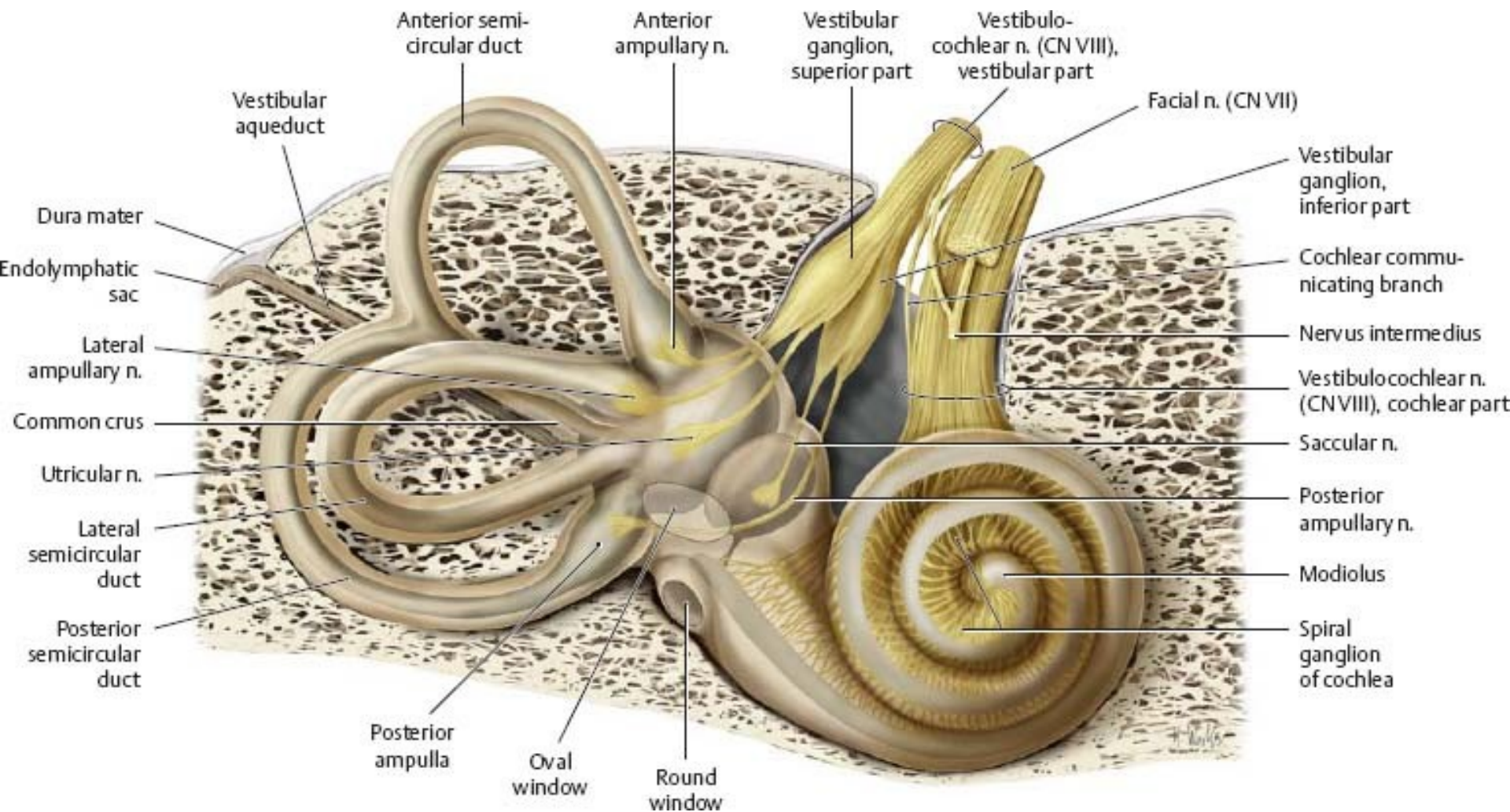
B Compartments of the cochlear canal, cross section.



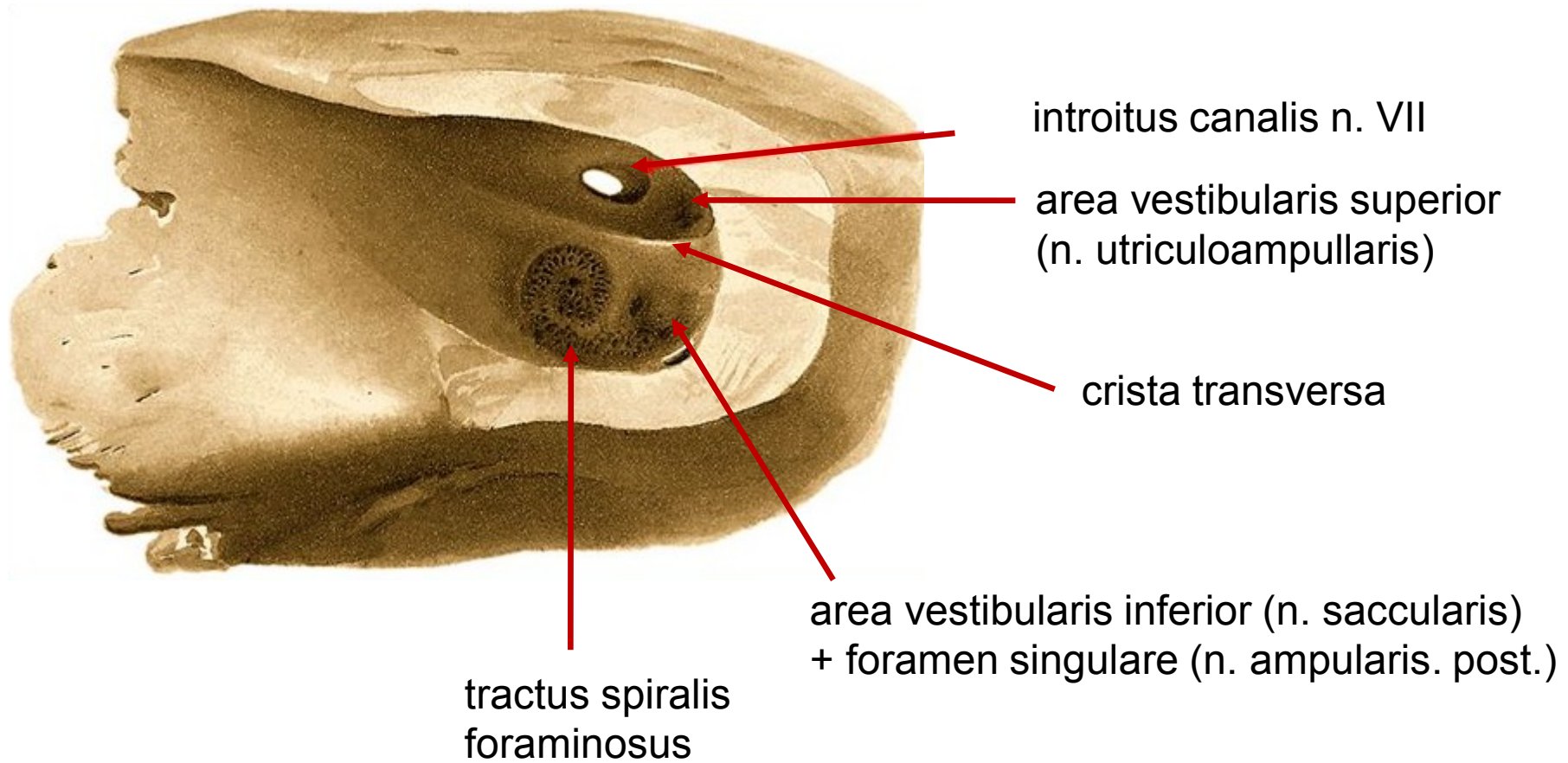
C Location of the cochlea. Superior view of the petrous part of the temporal bone with the cochlea sectioned transversely. The bony canal of the cochlea (spiral canal) makes 2.5 turns around its bony axis (modiolus).

# NERVUS VESTIBULOCOCHLEARIS





## Fundus meatus acustici interni



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