

ORGANUM

VESTIBULOCOCHLEARE

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Auris externa

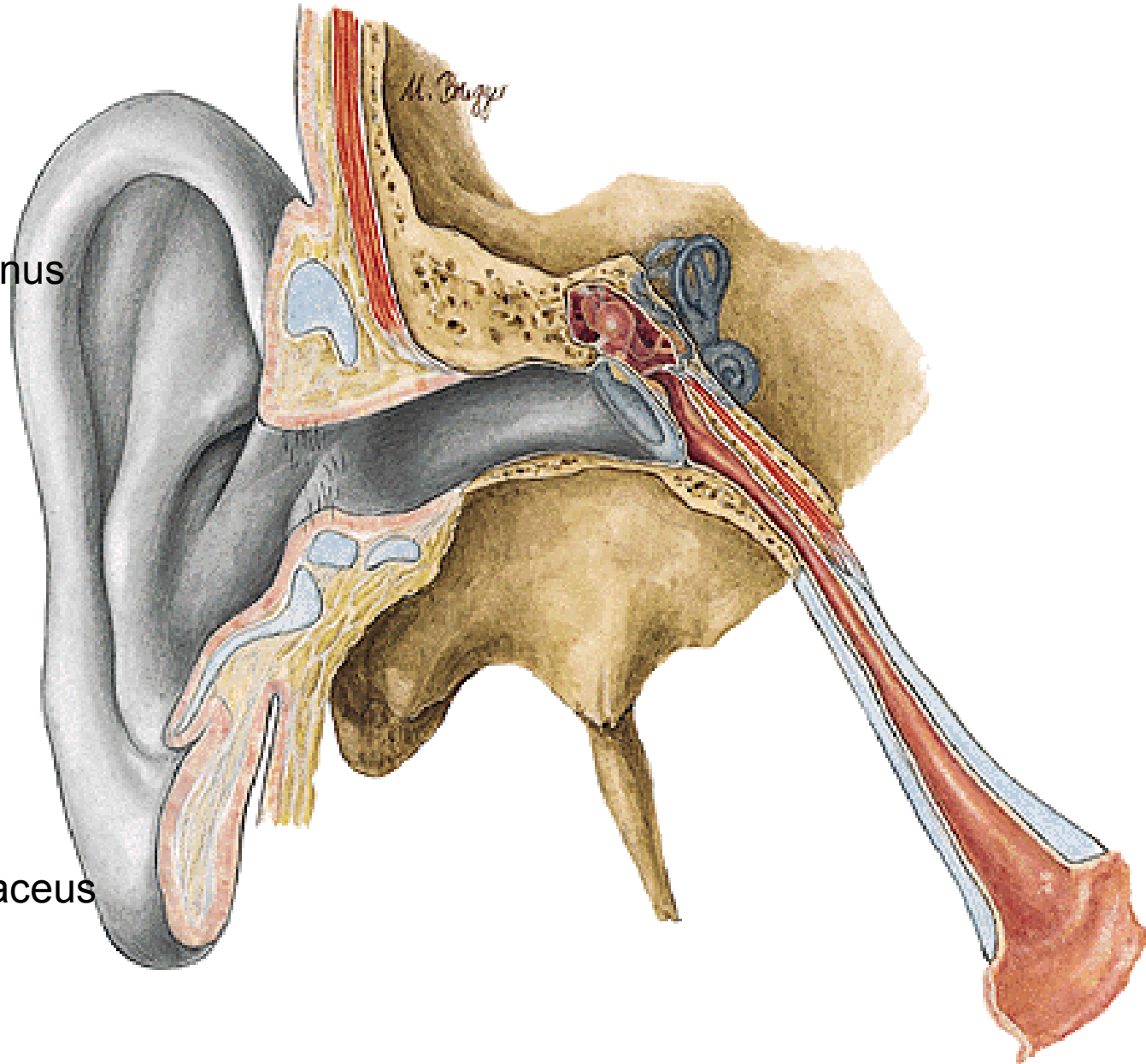
Auricula
Meatus acusticus externus
Membrana tympani

Auris media

Cavitas tympani
Ossicula auditus
Cellulae mastoideae
Tuba auditiva

Auris interna

Labyrinthus osseus
Labyrinthus membranaceus



AURICULA

HELIX – CRUS

(porus acusticus ext.)

TUBERCULUM AURICULAE

ANTHELIX

CRURA ANTHELICIA

FOSSA TRIANGULARIS

SCAPHA

CONCHA AURICULAE

- CYMBA CONCHAE

- CAVUM CONCHAE

TRAGUS

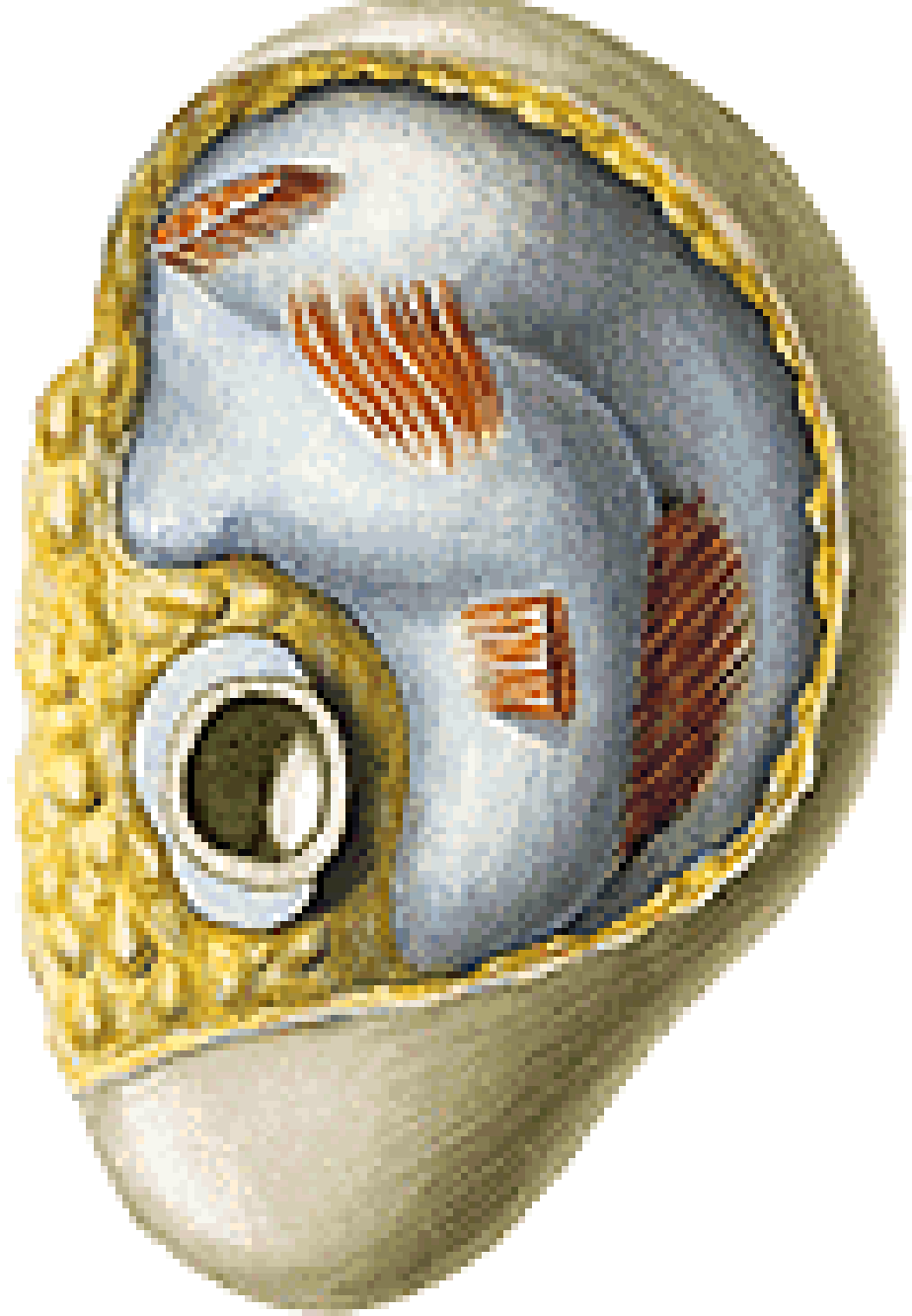
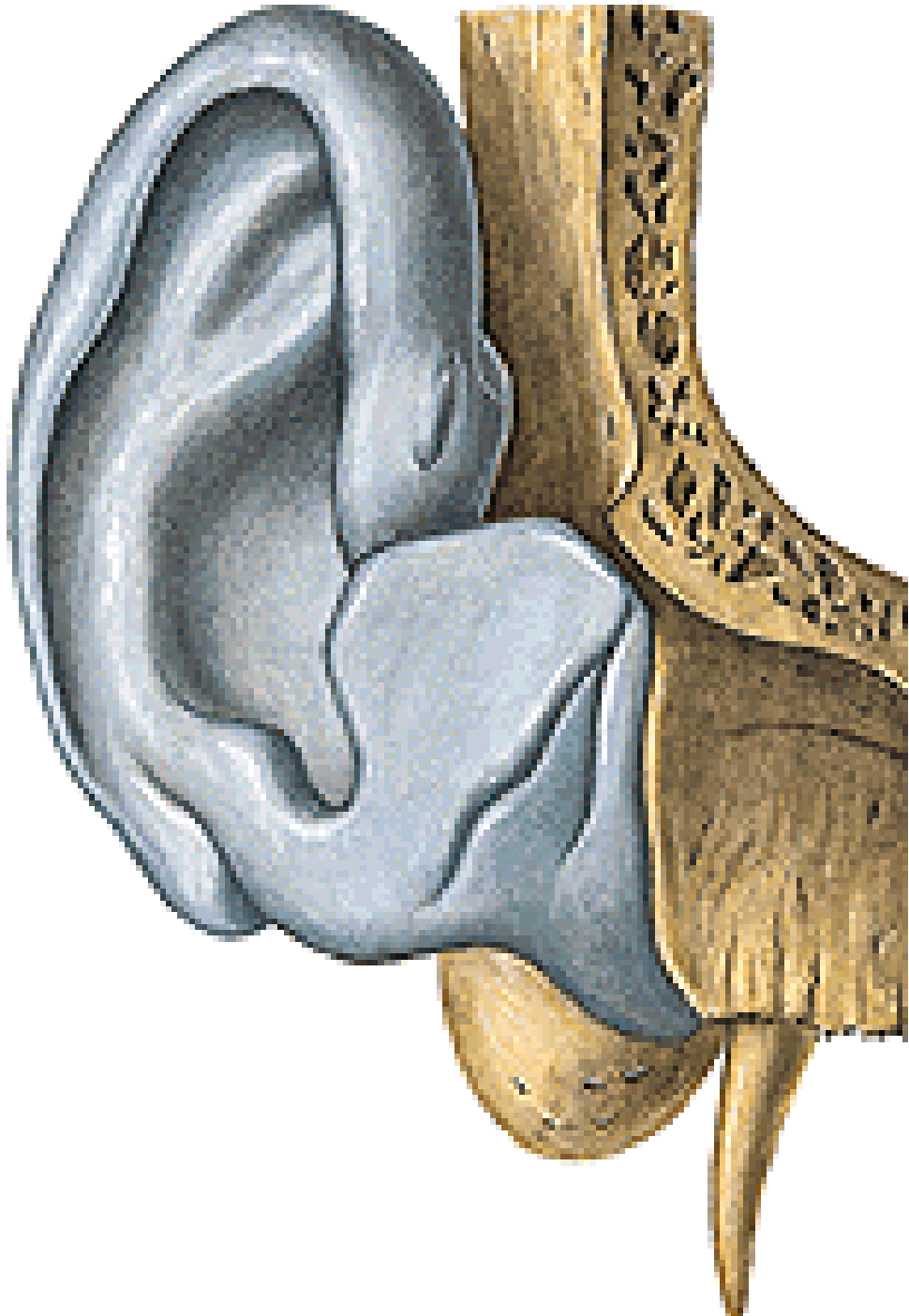
ANTITRAGUS

INCISURA INTERTRAGICA

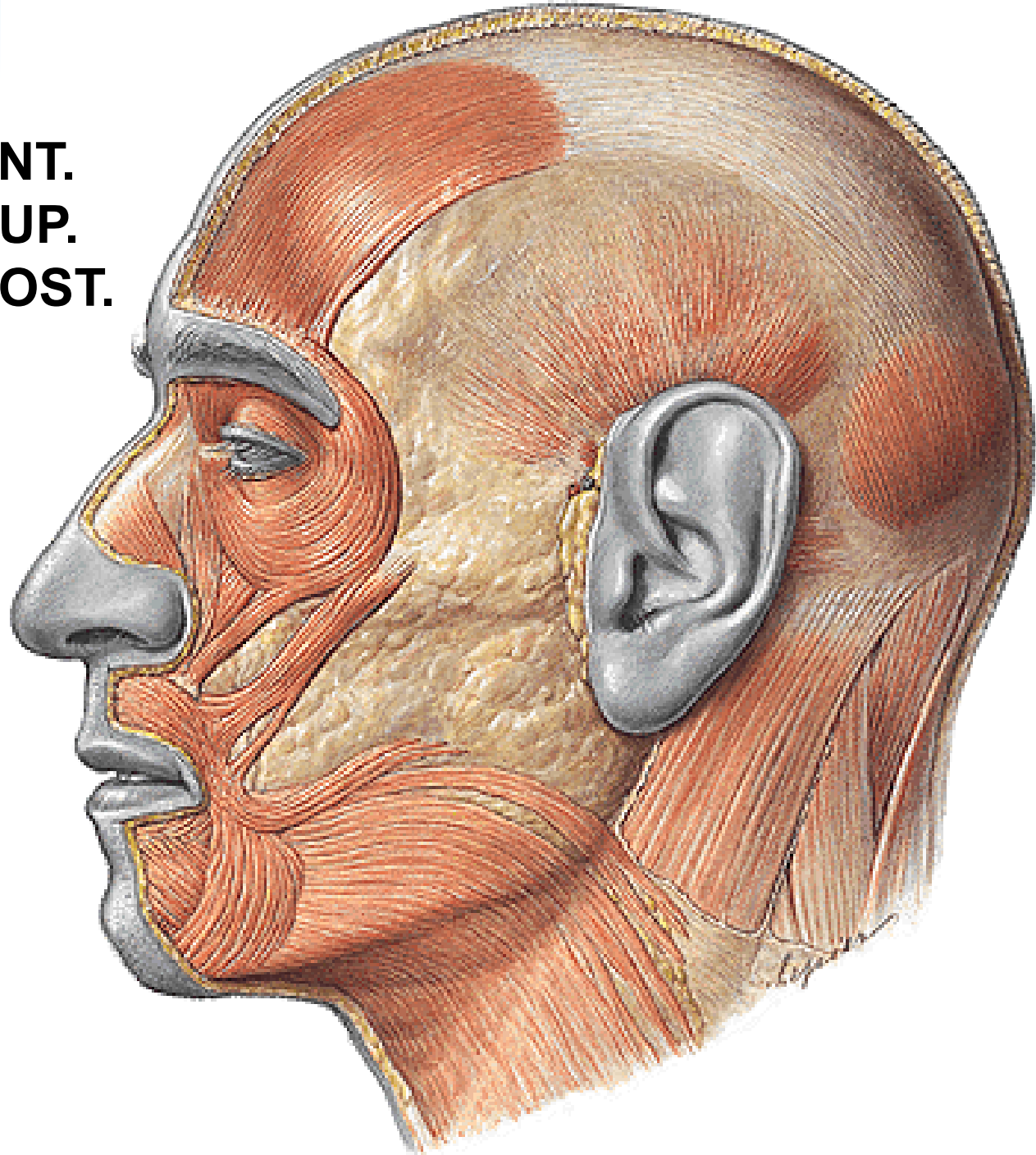
LOBULUS AURICULAE

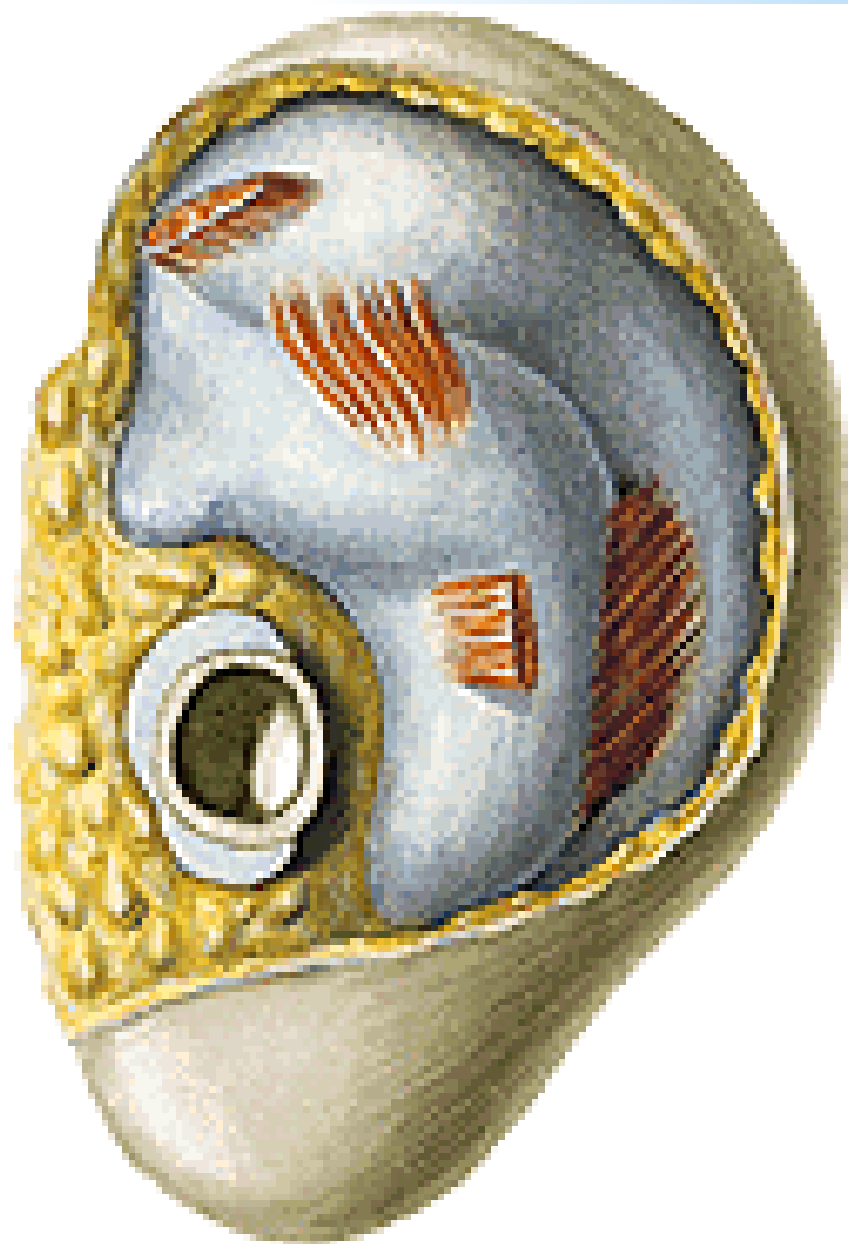
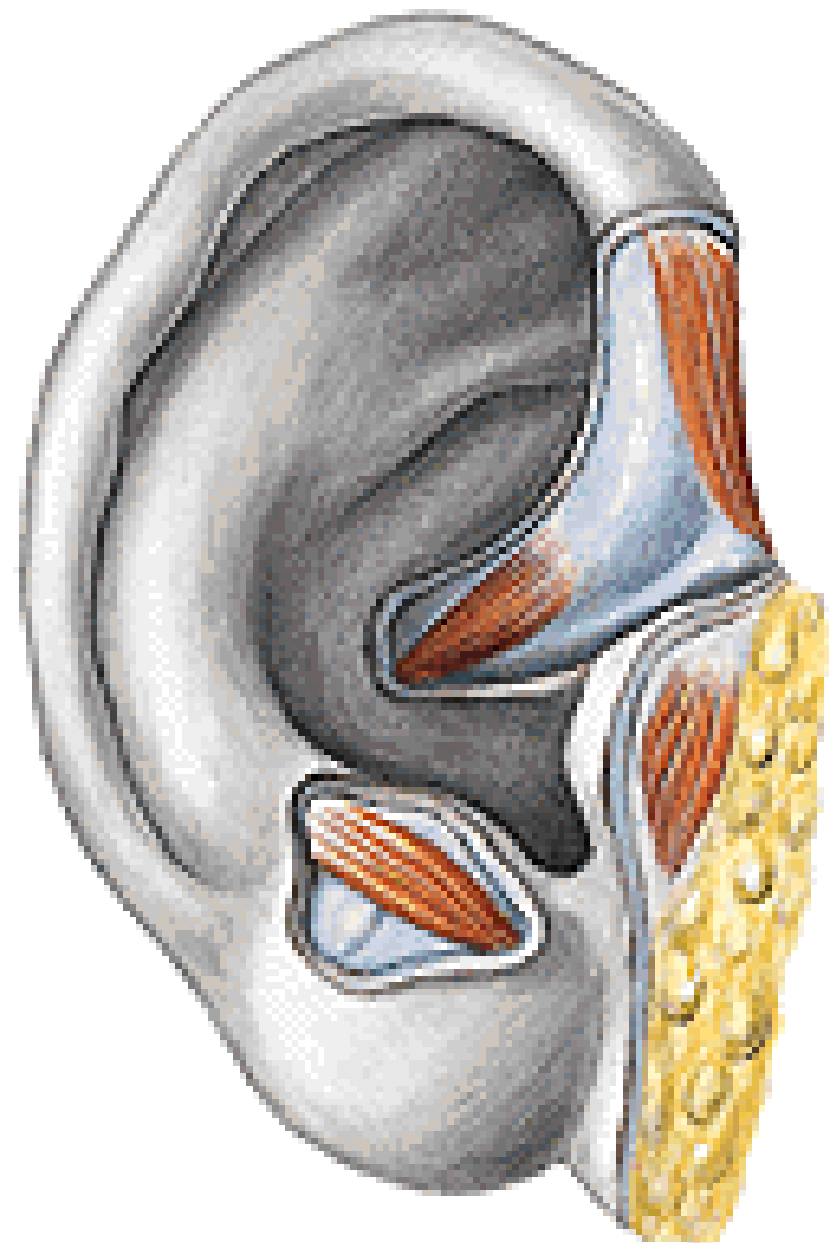






M. AURICULARIS ANT.
M. AURICULARIS SUP.
M. AURICULARIS POST.





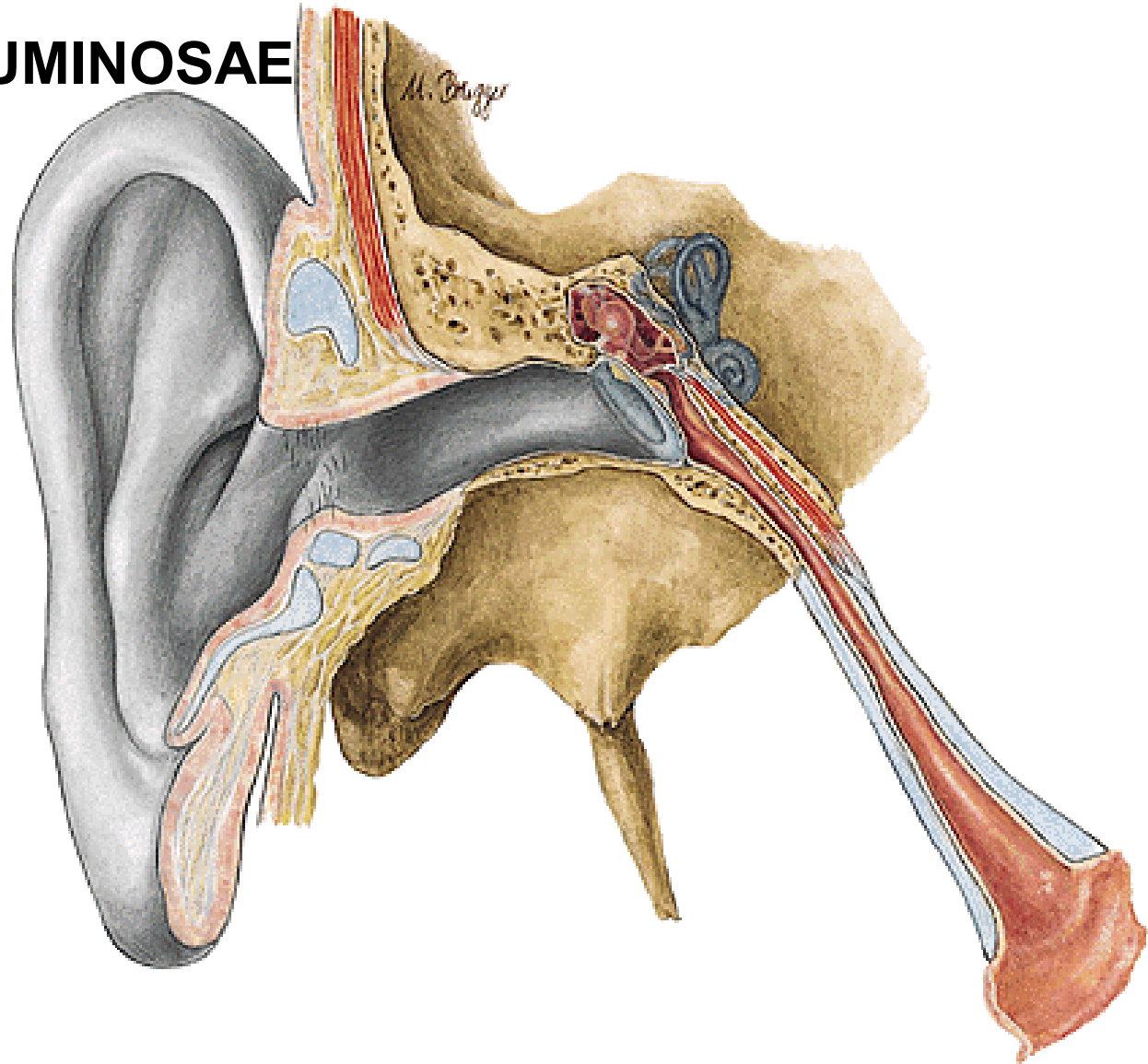
MEATUS ACUSTICUS EXTERNUS

ISTHMUS

GLANDULAE CERUMINOSAE

CERUMEN

TRAGI



MEMBRANA TYMPANI

External Ear

Right Tympanic Membrane

pars flaccida membranae tympani (membrana Shrapnelli)

plica mallearis anterior et posterior

prominentia mallearis

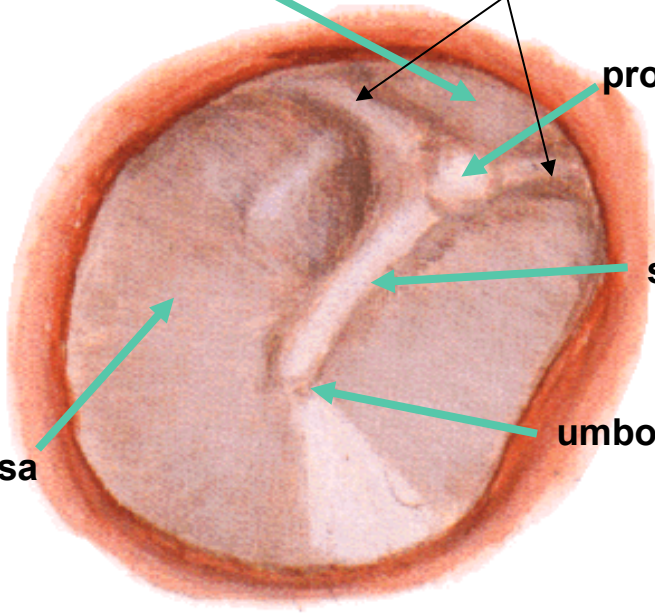
stria mallearis

umbo membranae tympani

pars tensa

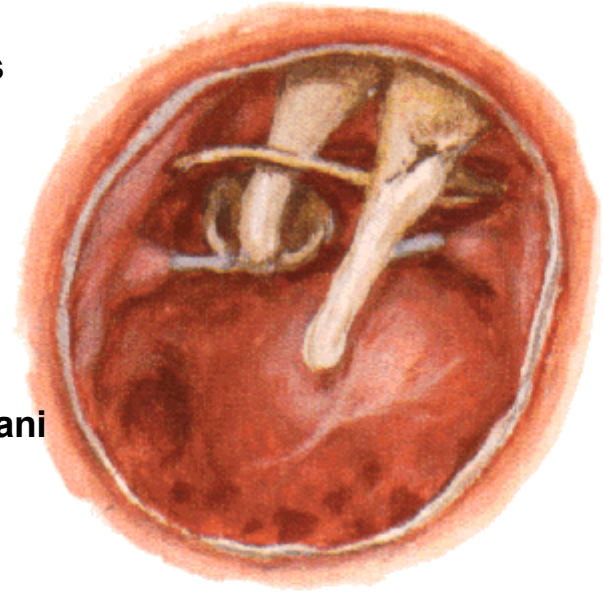
light reflex (trigonum Woodi)

Viewed through speculum



Tympanic Cavity

Viewed from External Acoustic Meatus



Tympanic Membrane Removed



EXTERNAL EAR:

A. MAXILLARIS

A. TEMPORALIS SPF.

A. OCCIPITALIS

A. AURICULARIS POST.

V. JUGULARIS EXT.

PLEXUS PTERYGOIDEUS

SINUS DURAE MATRIS

N. AURICULARIS MAGNUS

N. OCCIPITALIS MINOR

N. AURICULOTEMPORALIS

R. AURICULARIS N. VAGI

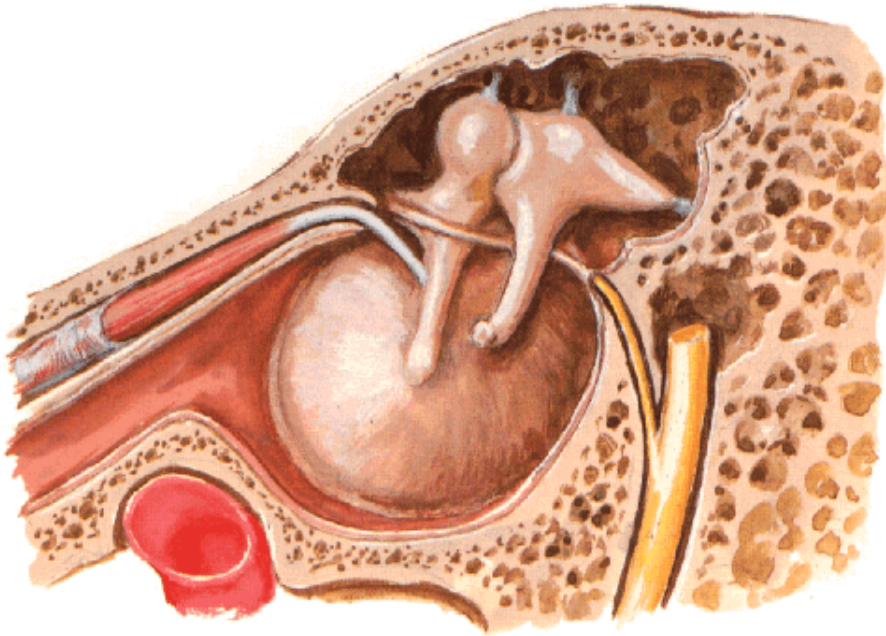
N. TYMPANICUS N. GLOSSOPHARYNGEI

N. FACIALIS

CAVUM TYMPANI

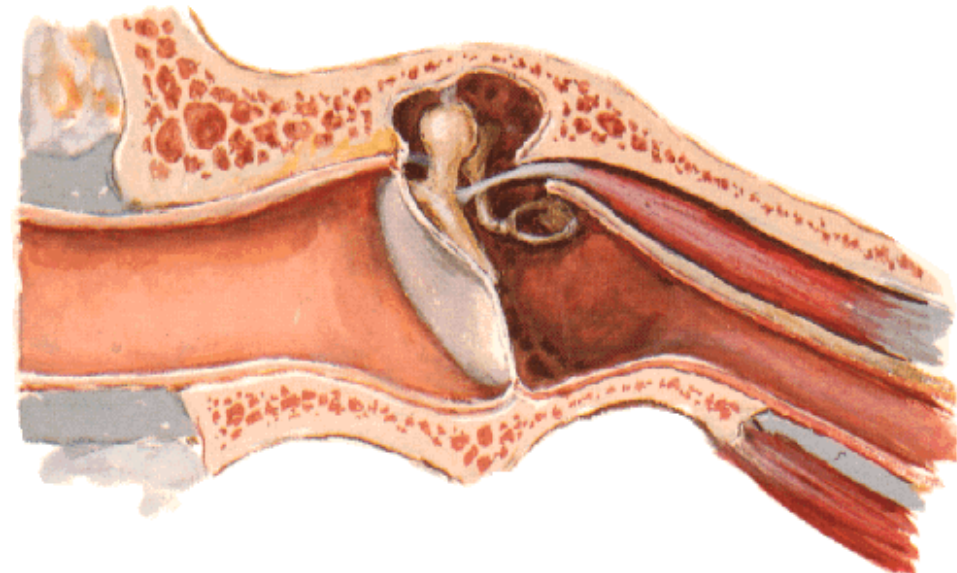
- cavum tympani proprium
- recessus epitympanicus

Tympanic Cavity - Lateral Wall
Medial View

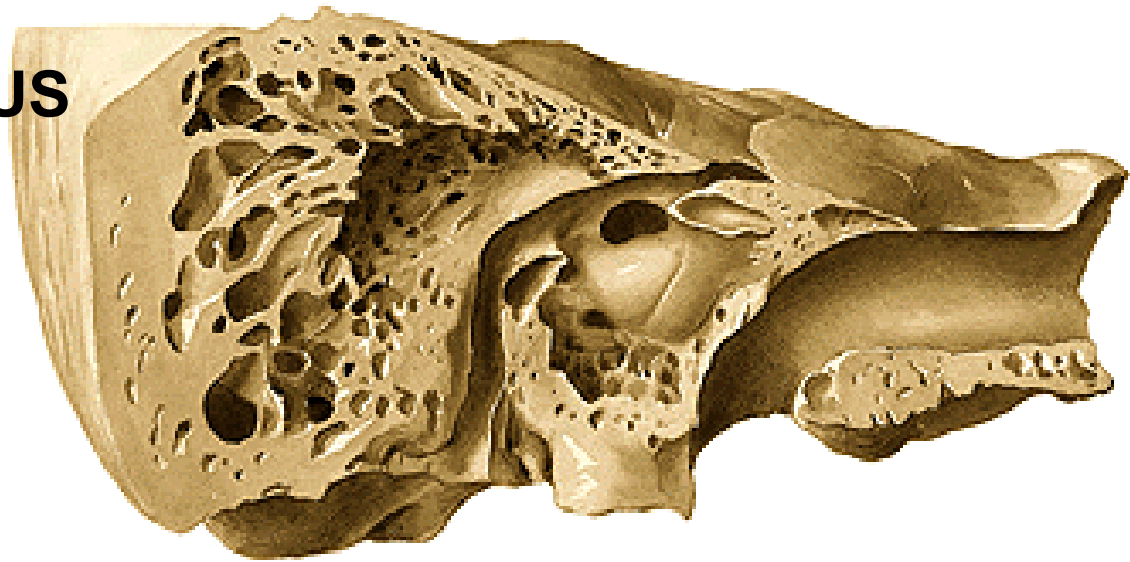


- Paries tegmentalis**
- Paries jugularis**
- Paries caroticus**
- Paries mastoideus**
- Paries labyrinthicus**
- Paries membranaceus**

External Ear and Tympanic Cavity
Coronal Oblique Section



PARIES LABYRINTHICUS



PROMONTORY

FENESTRA VESTIBULI

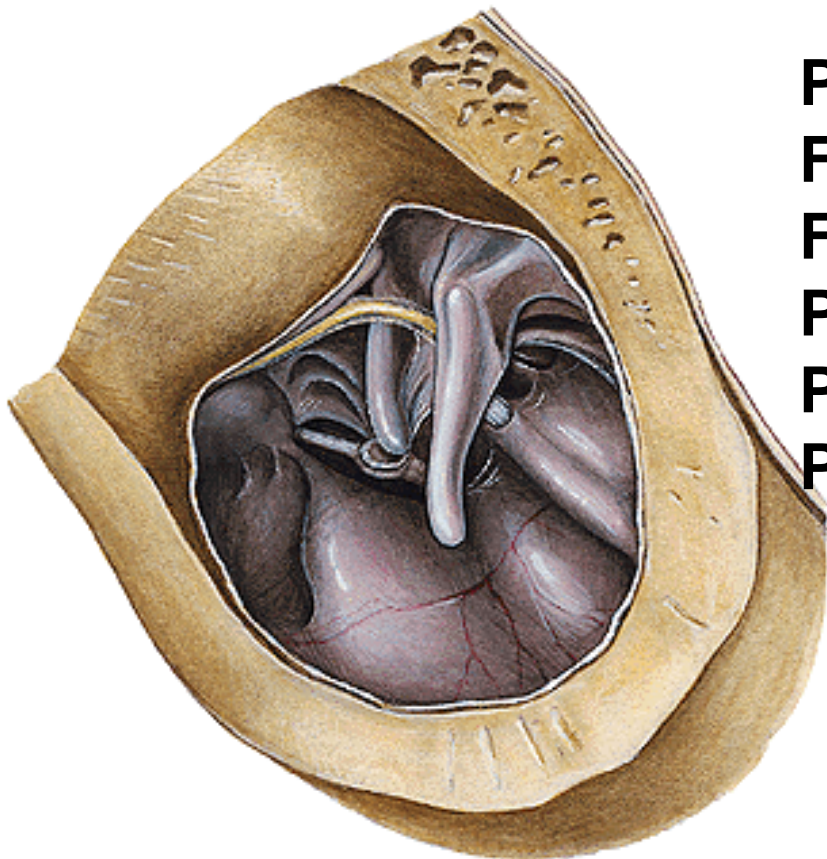
FENESTRA COCHLEAE

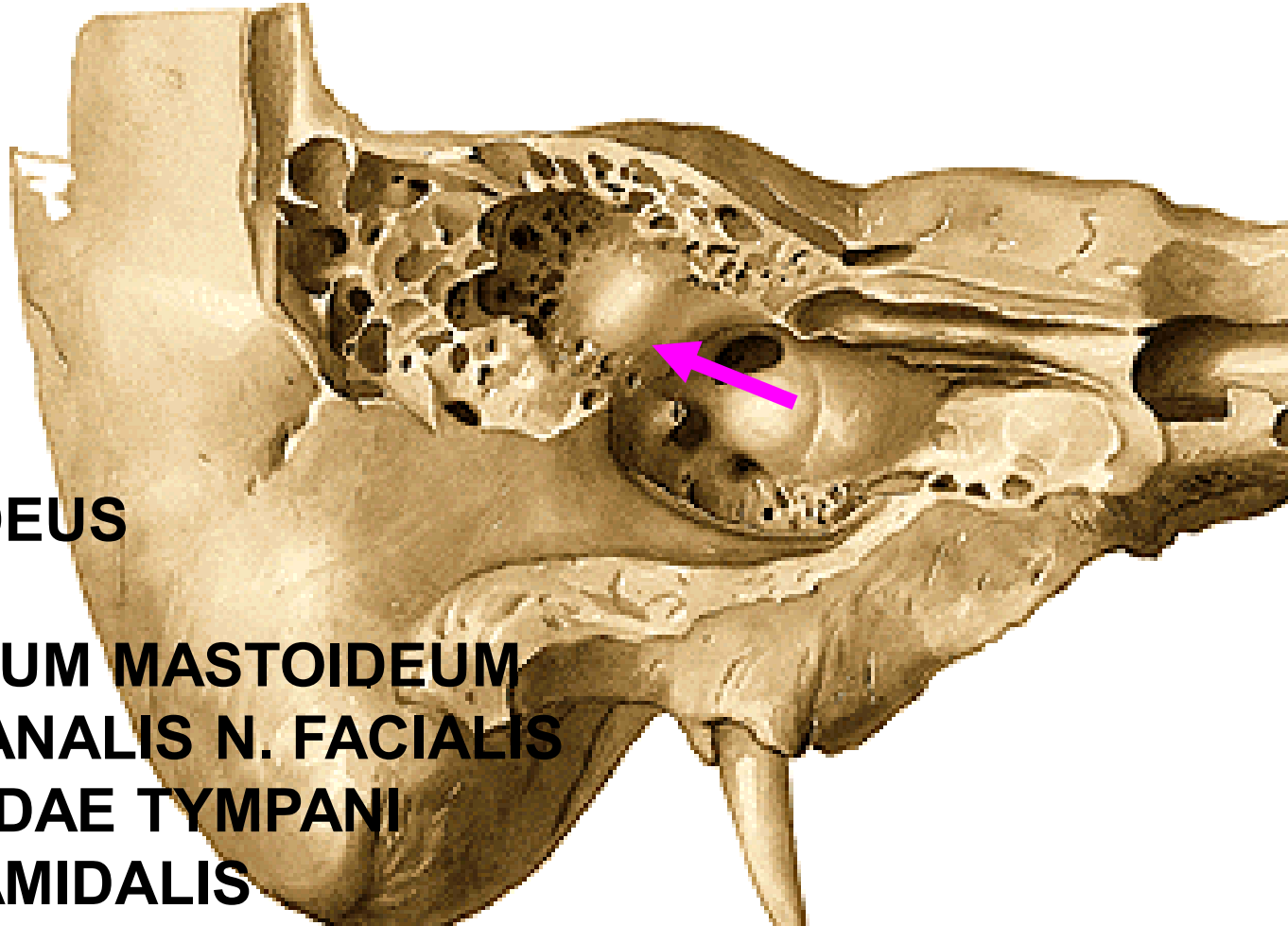
PROCESSUS COCHLEARIFORMIS

PROMINENTIA CANALIS FACIALIS

PROMINENTIA CANALIS

SEMICIRCULARS LATERALIS



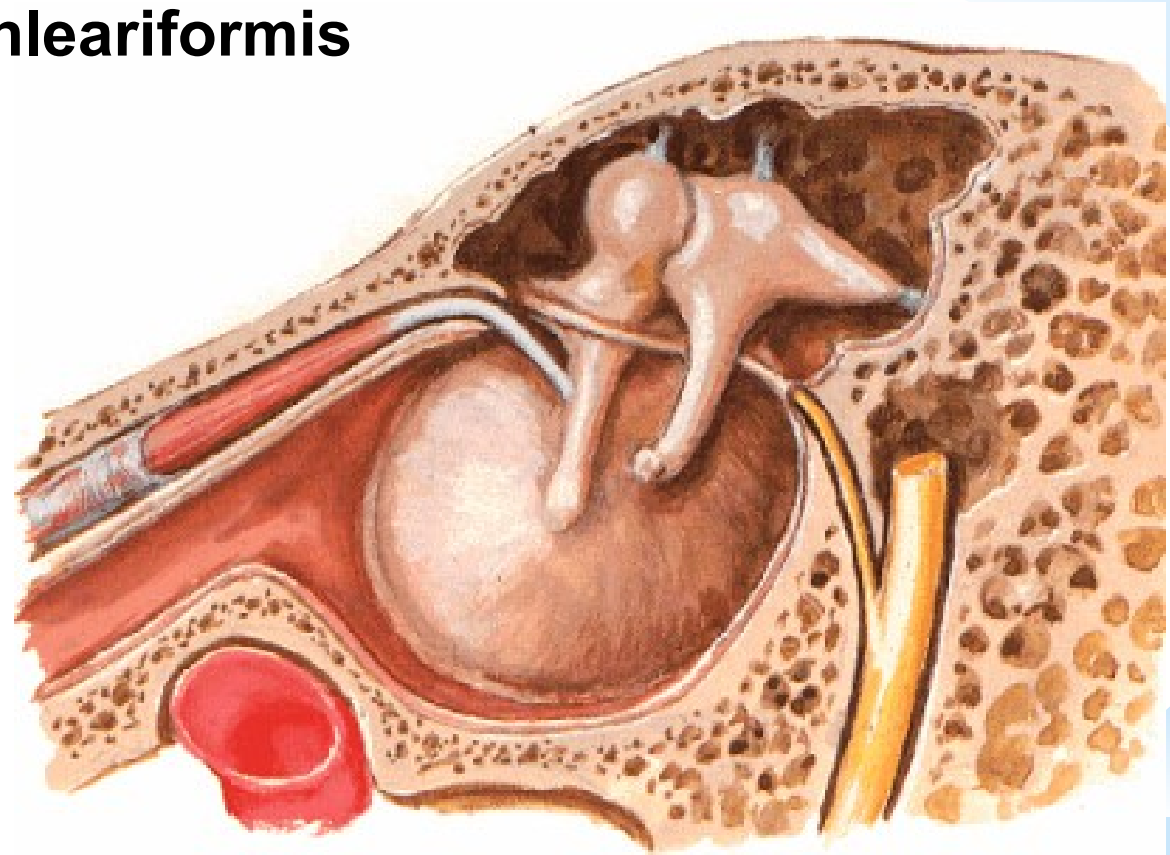


PARIES MASTOIDEUS

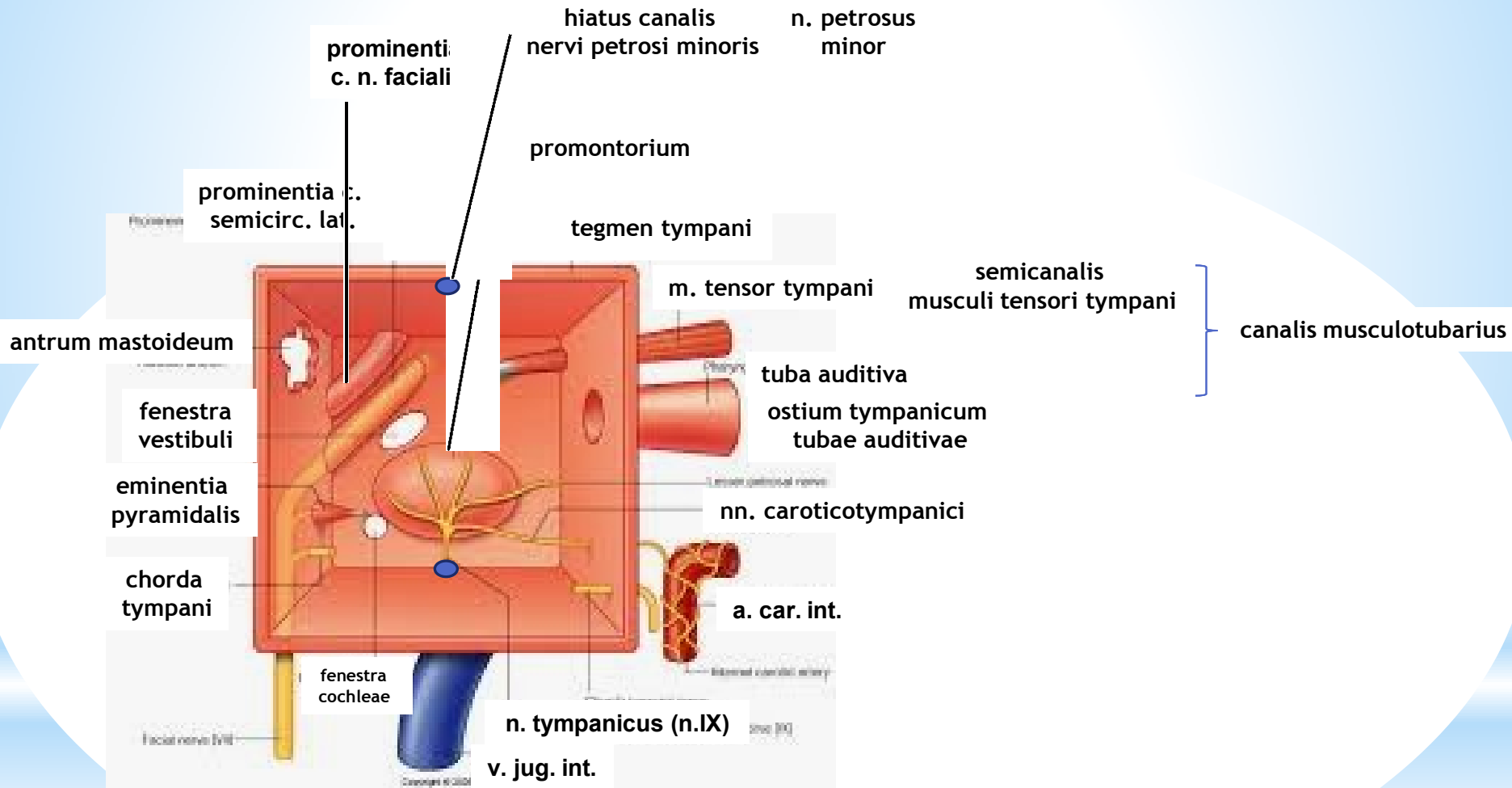
ADITUS AD ANTRUM MASTOIDEUM
PROMINENTIA CANALIS N. FACIALIS
FORAMEN CHORDAE TYMPANI
EMINENTIA PYRAMIDALIS

Paries caroticus:

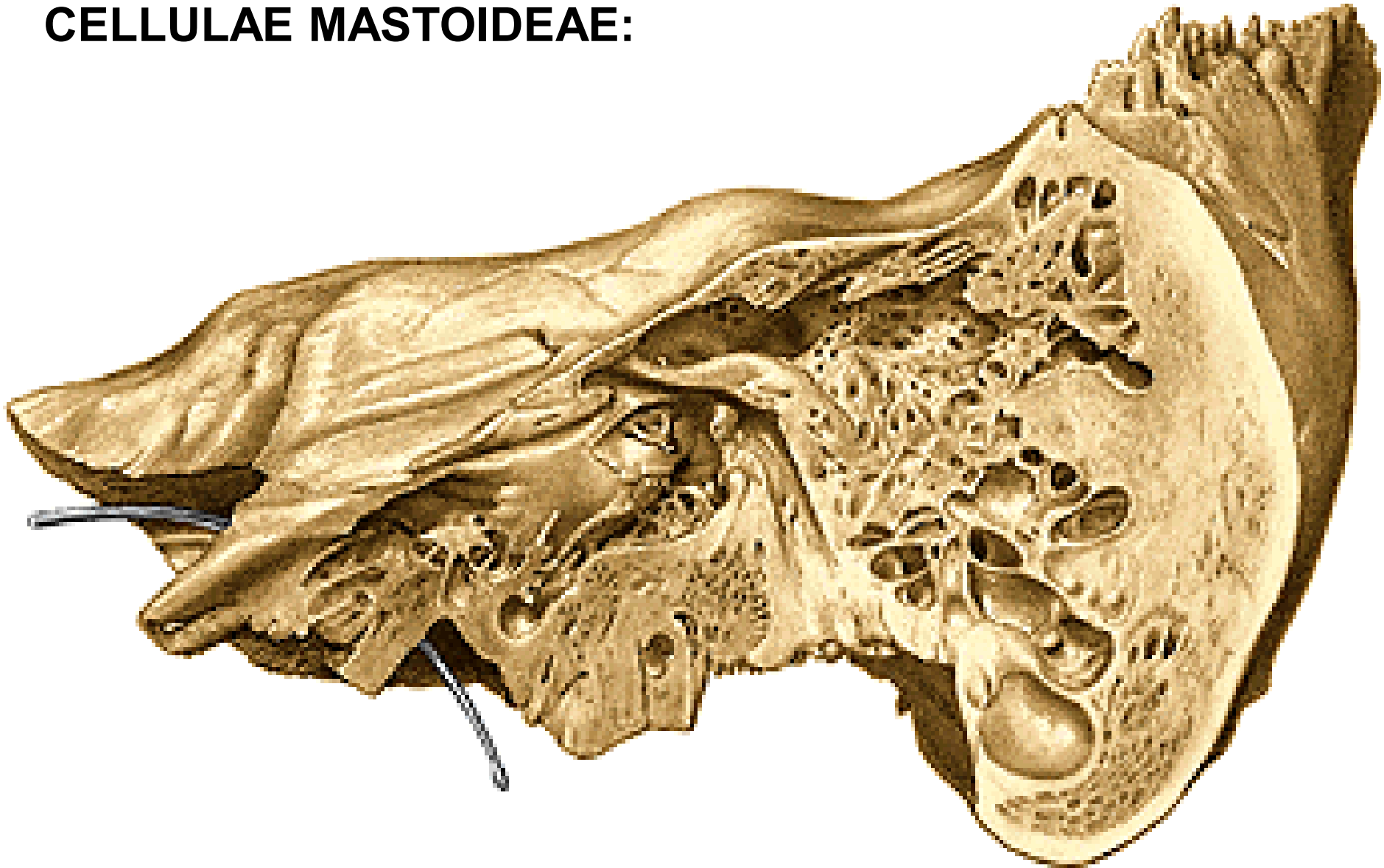
- **nn. caroticotympanici**
- **canalis musculotubarius – semicanalis m. tensoris tymp.**
 - **semicanalis tubae auditivae**
- **processus cochleariformis**



CAVITAS TYMPANI

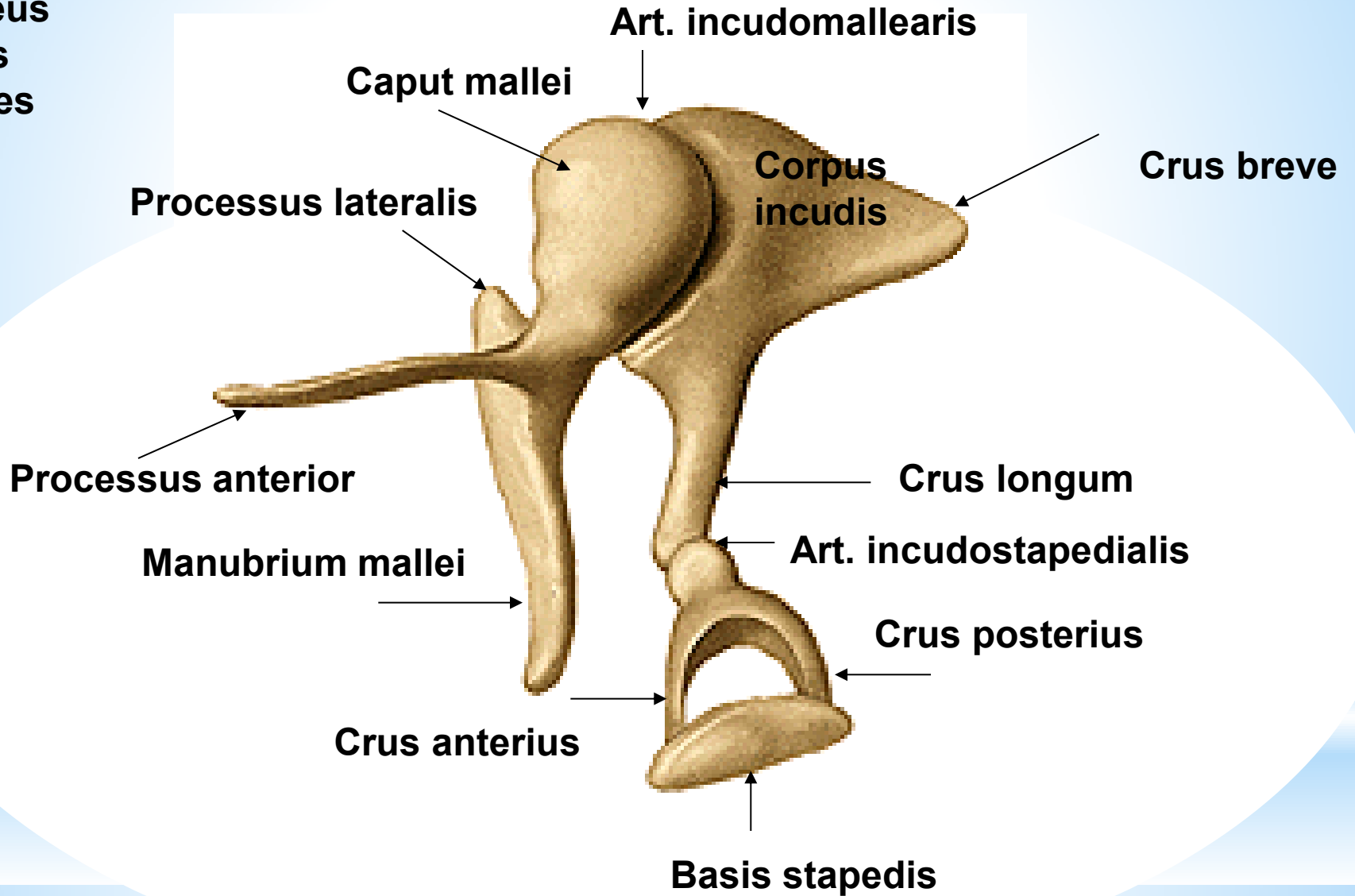


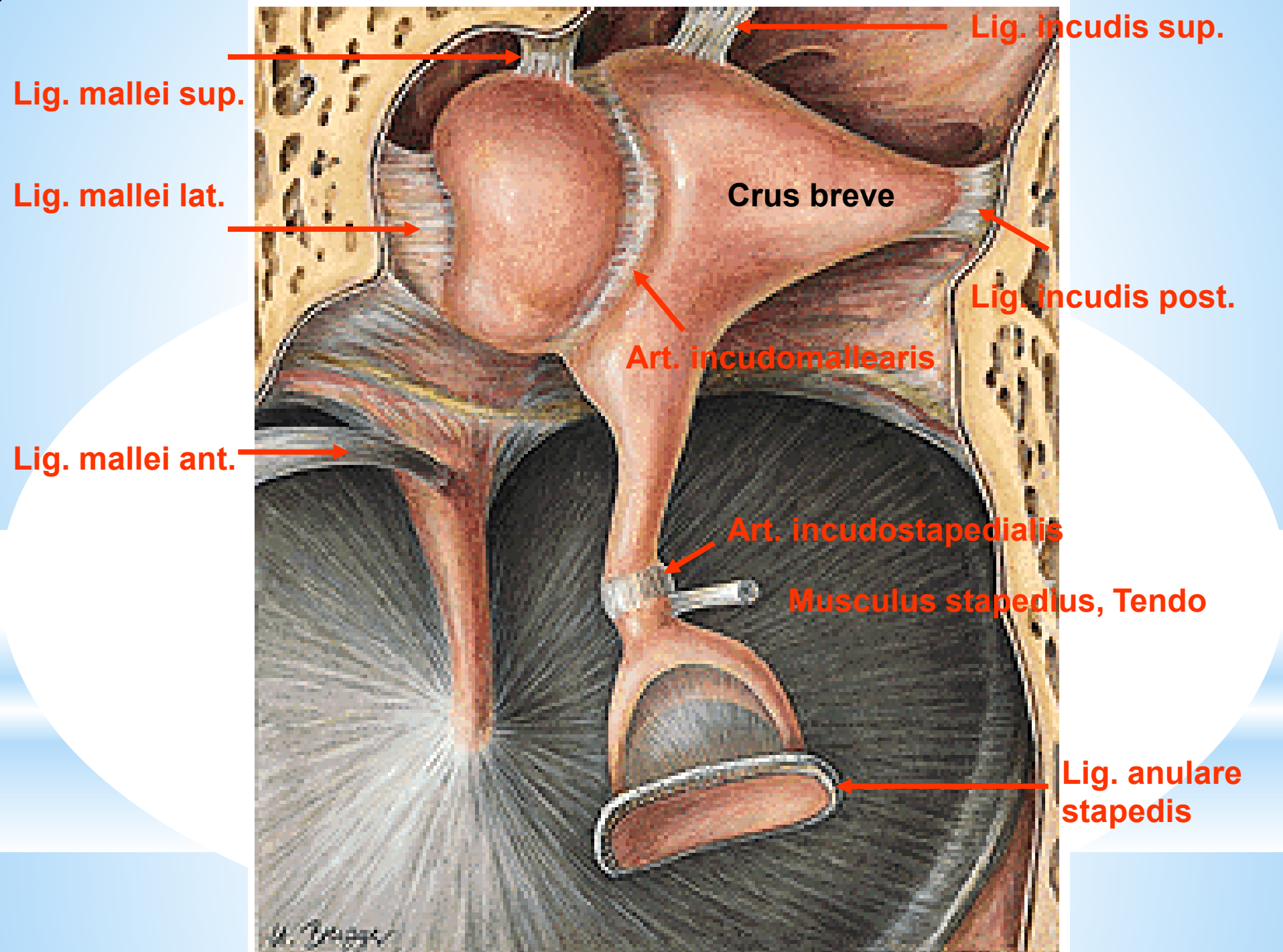
CELLULAE MASTOIDEAE:

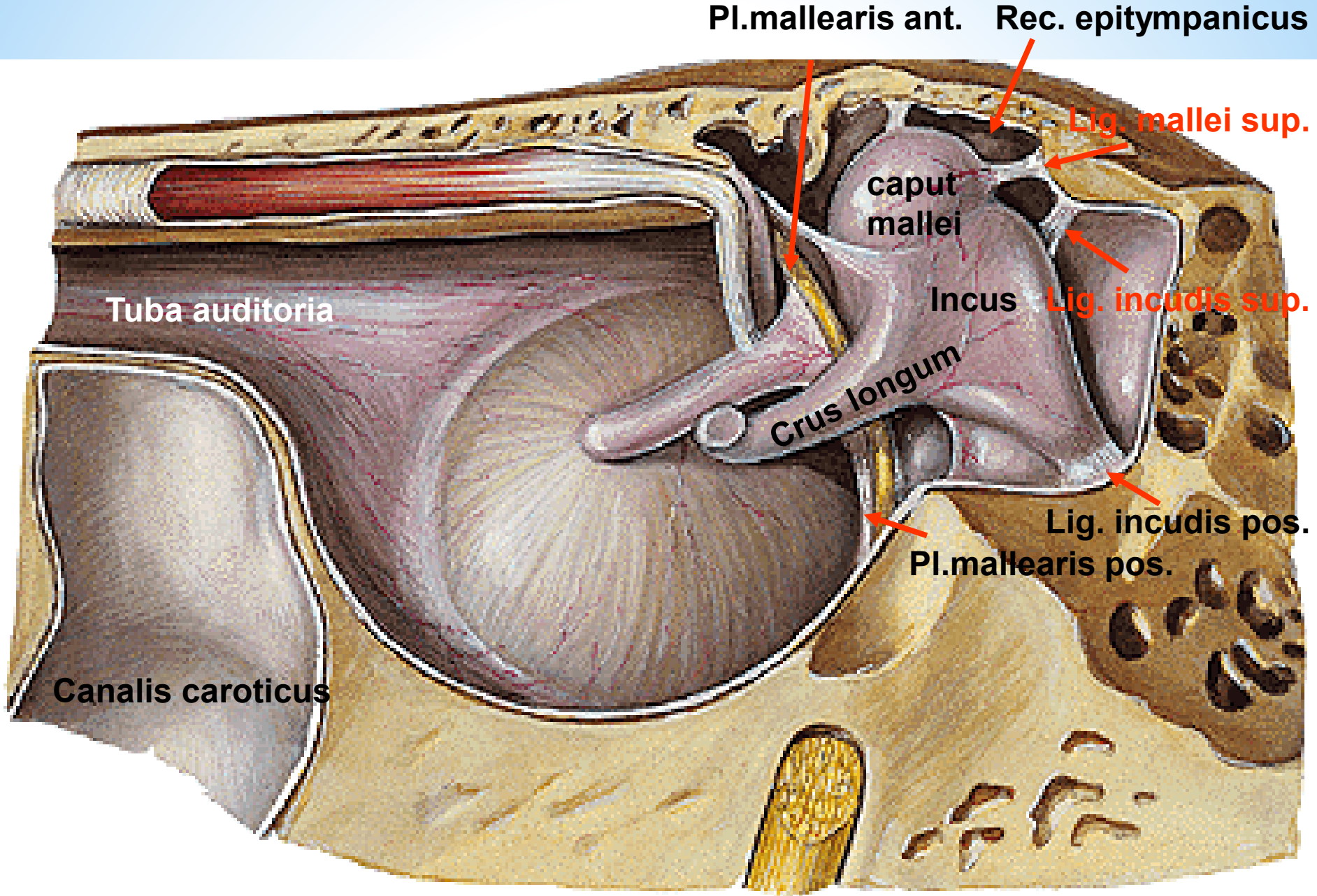


OSSICULA AUDITUS:

Malleus
Incus
Stapes







Pl.mallearis ant. Rec. epitympanicus

Lig. mallei sup.

caput mallei

Incus

Lig. incudis sup.

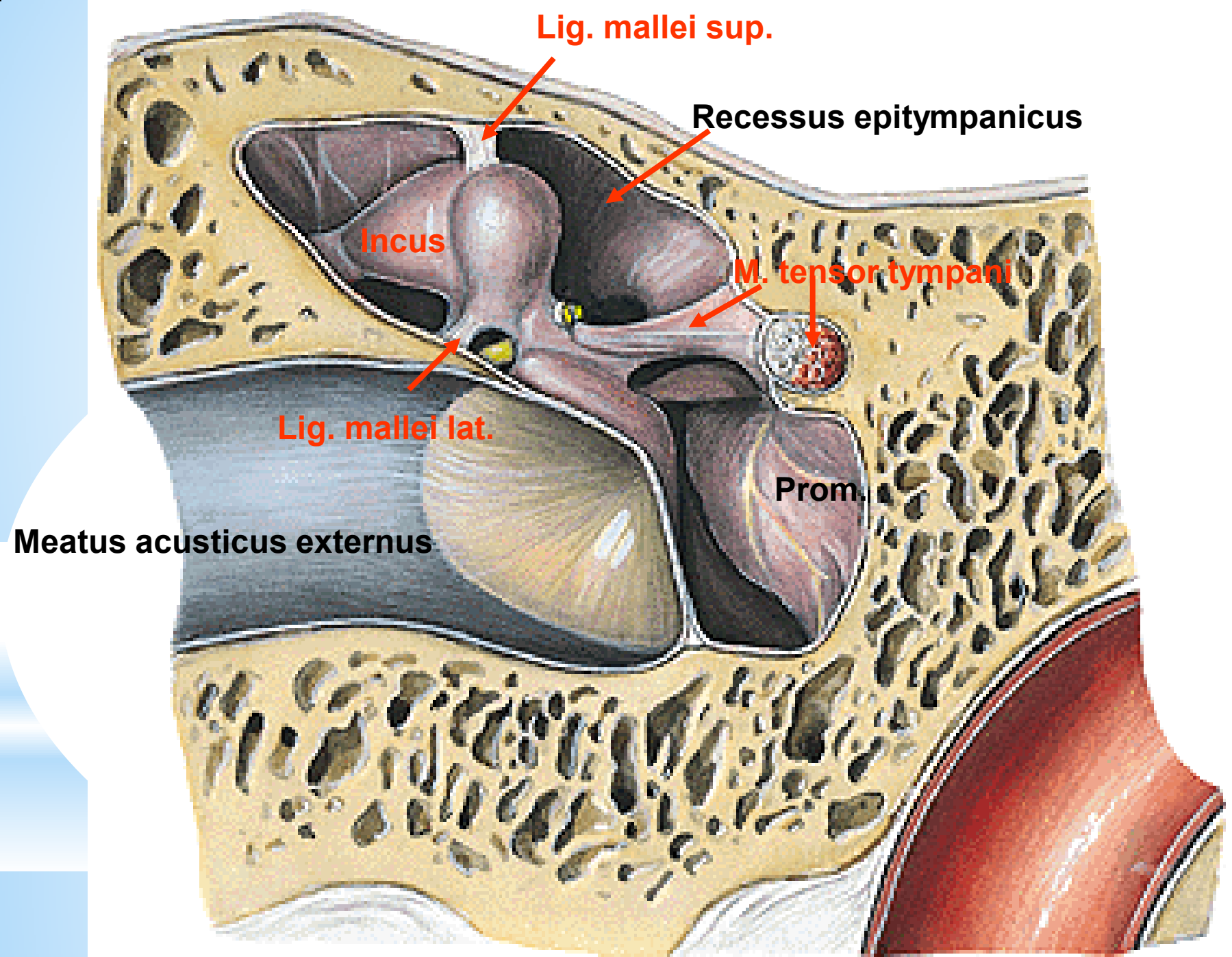
Tuba auditoria

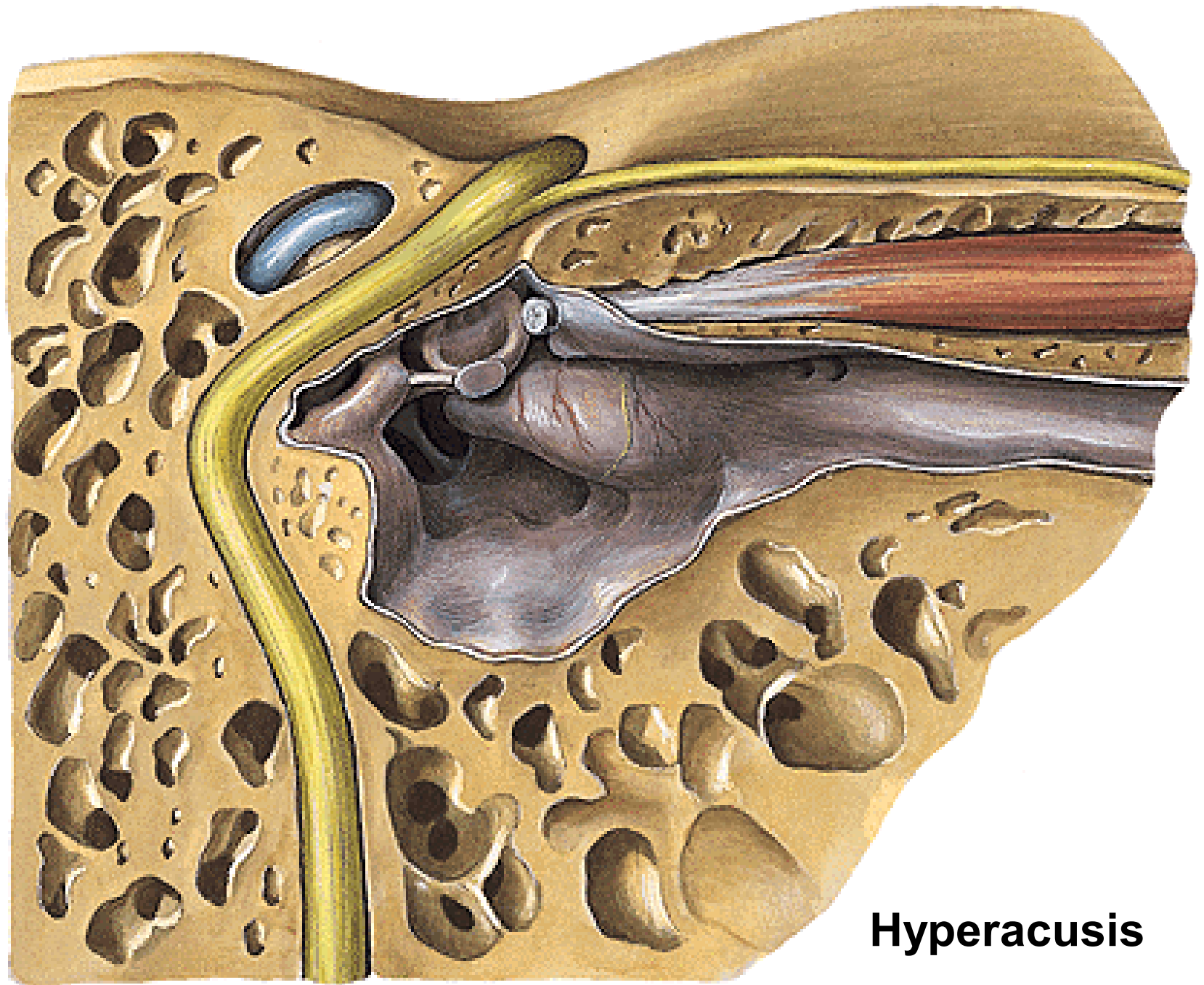
Crus longum

Lig. incudis pos.

Pl.mallearis pos.

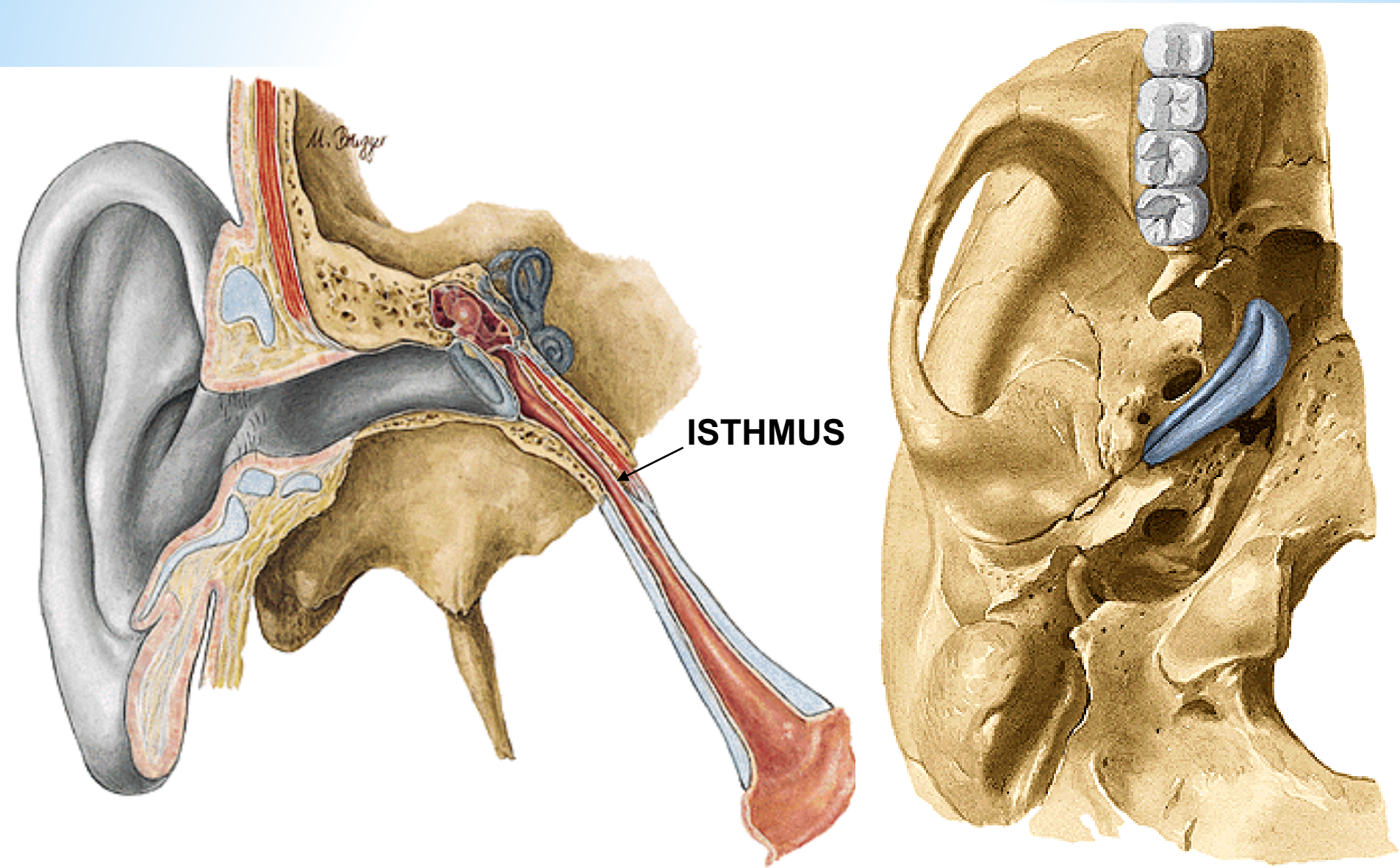
Canalis caroticus





Hyperacusis

TUBA AUDITIVA (PHARYNGOTYMPANICA)



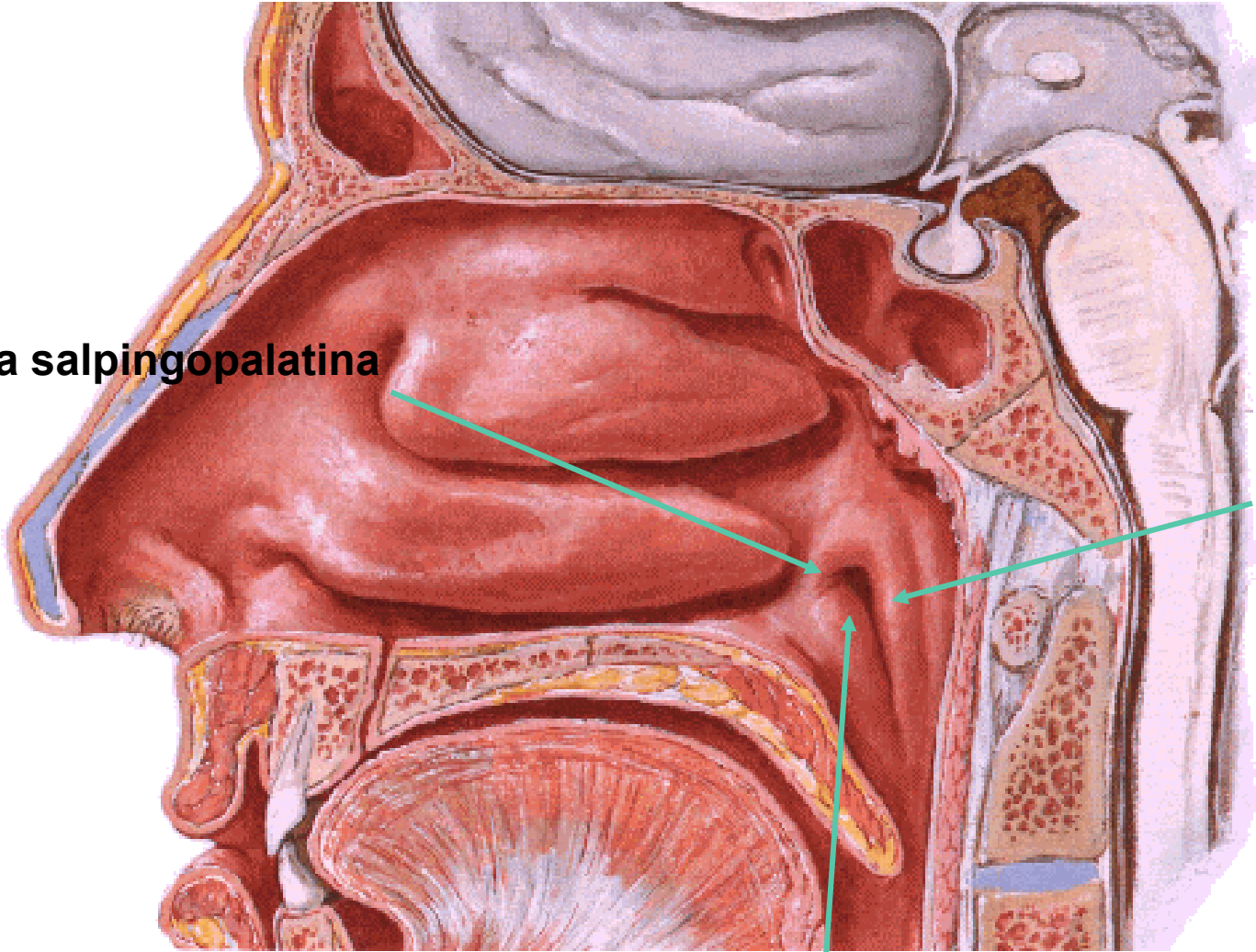
OSTIUM PHARYNGEUM TUBAE AUDITIVAE

Plica salpingopalatina

Torus tubarius

Tonsila tubaria

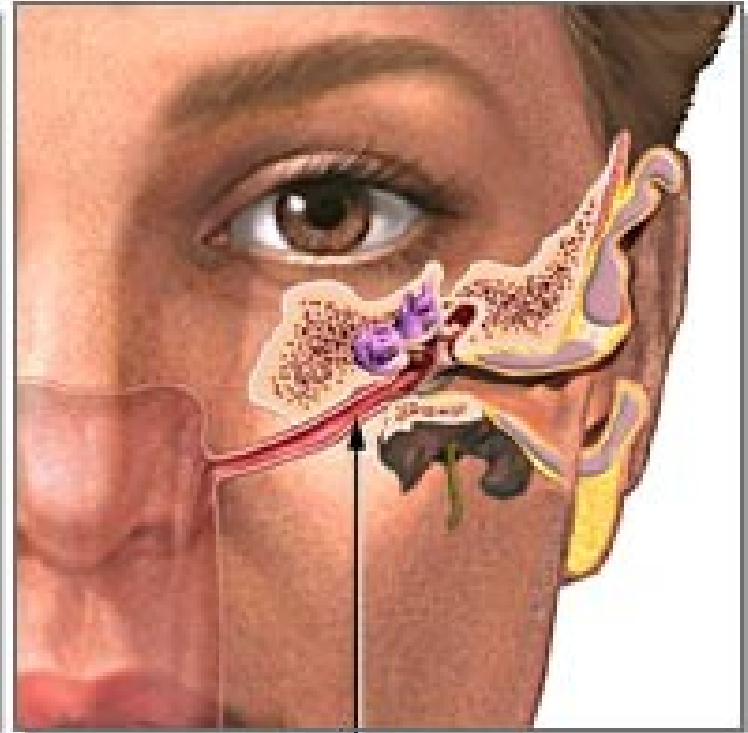
Torus levatorius



Infant



Adult



Eustachian tube

MIDDLE EAR:

A. MAXILLARIS

A. AURICULARIS POST.

A. MENINGEA MEDIA

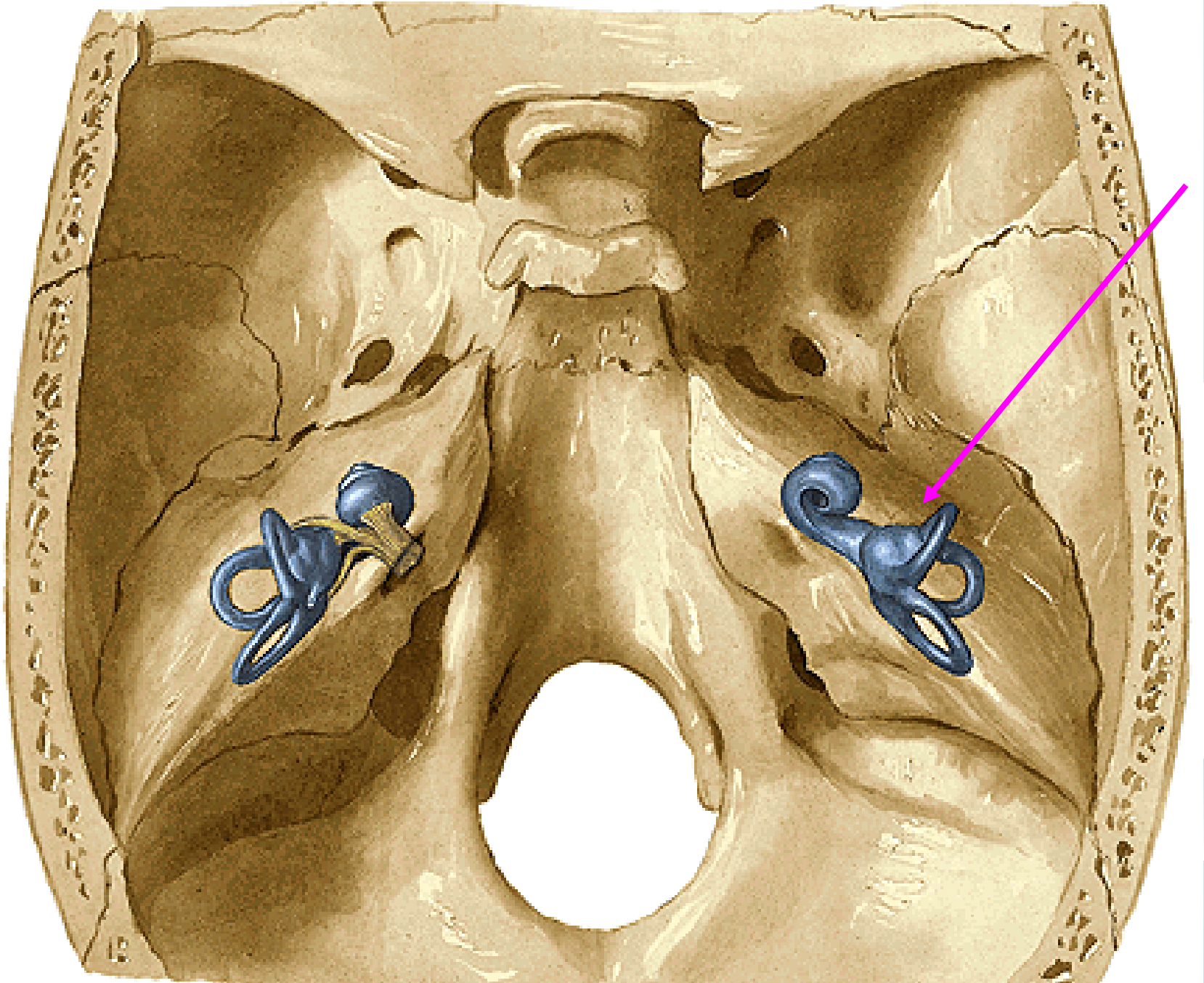
A. PHARYNGEA ASC.

VEINS: PLEXUS PTERYGOIDEUS, SINUS PETROSUS SUP.

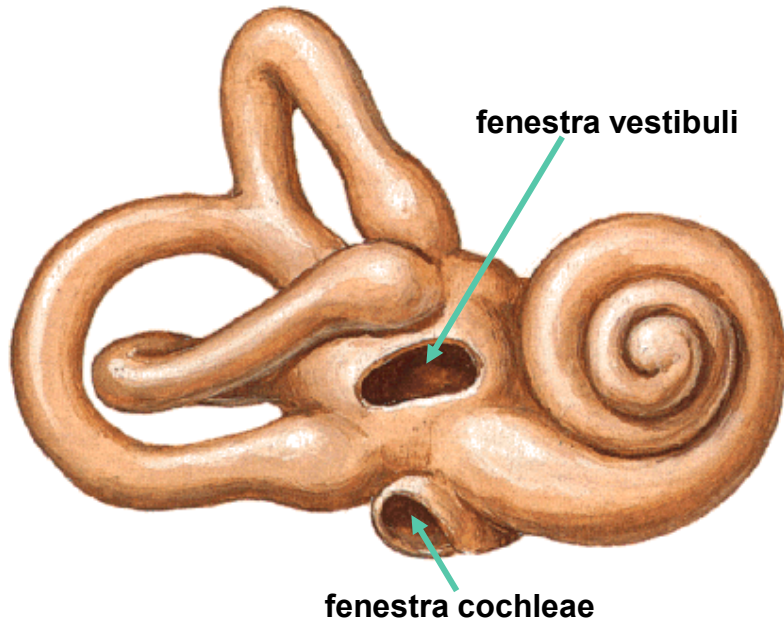
PLEXUS TYMPANICUS (CN VII, IX and NN. CAROTICO-TYMPANICI)

LYMPH: NLL. CERVICALES PROF.

LABYRINTHUS OSSEUS



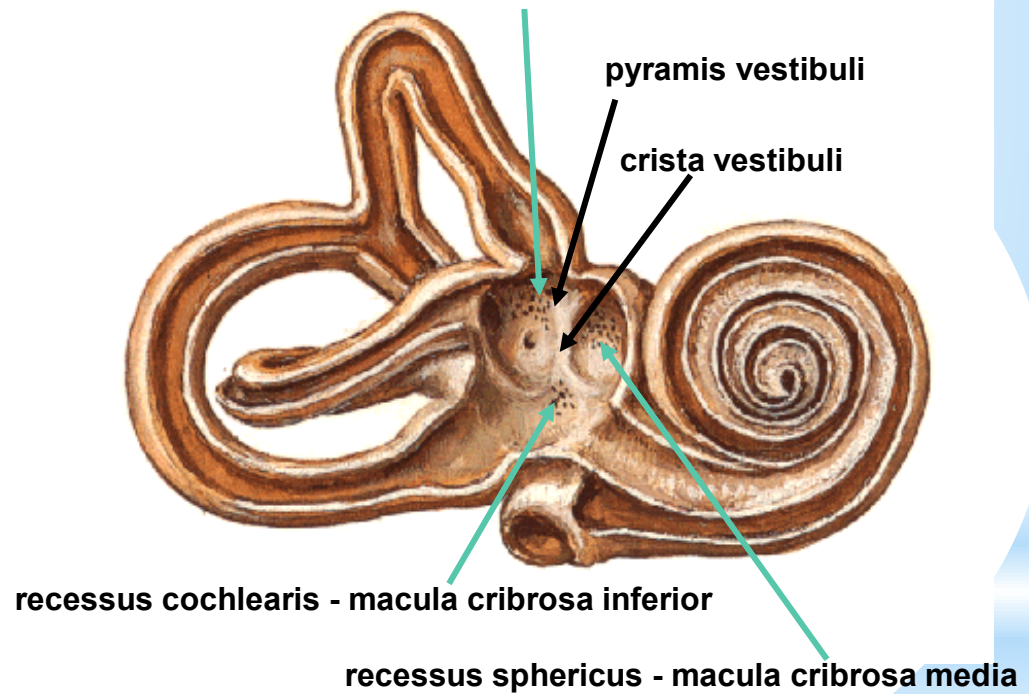
Right Osseous Labyrinth
Anterolateral View



cochlea, vestibulum et canales semicirculares ossei



recessus ellipticus - macula cribrosa superior



COCHLEA

Modiolus

Canalis spiralis cochleae

Cupula

Lamina spiralis ossea

Scala vestibuli

Scala tympani

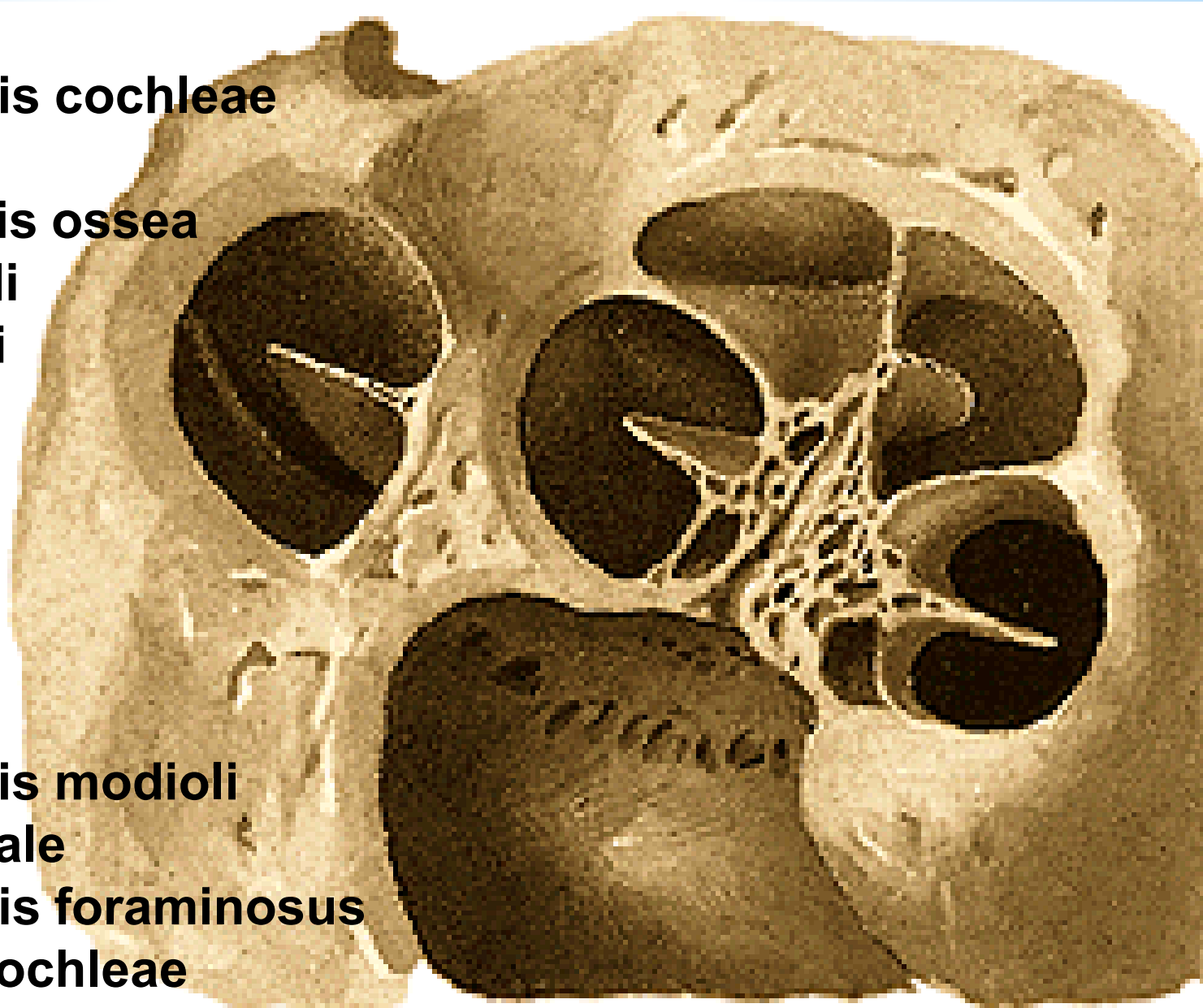
Helicotrema

Canalis spiralis modioli

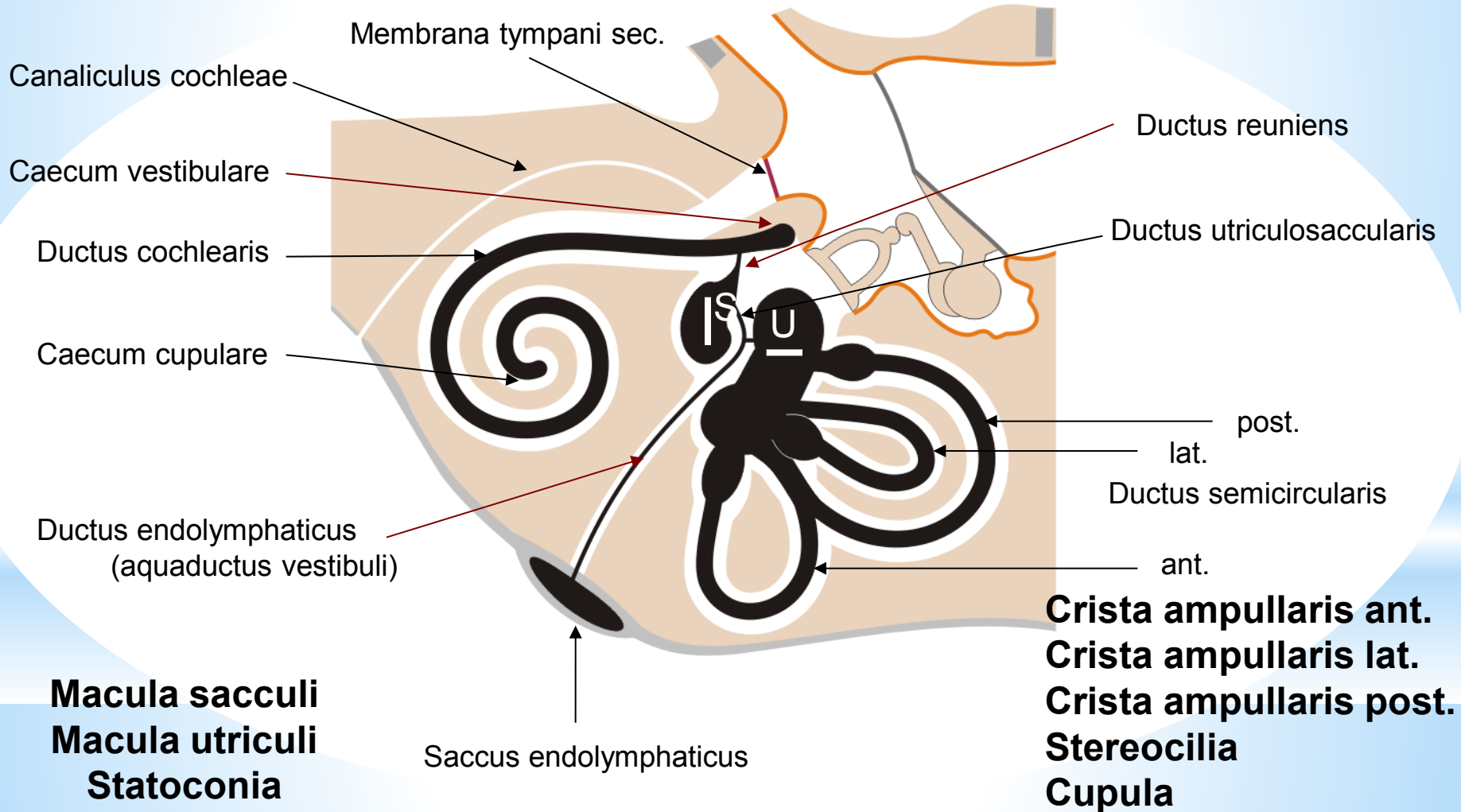
Ganglion spirale

Tractus spiralis foraminosus

Canaliculus cochleae



LABYRINTHUS MEMBRANACEUS



Caecum cupulare
Caecum vestibulare

Scala vestibuli
(perilymph)

Ductus
cochlearis
(endolymph)

Membrana vestibularis

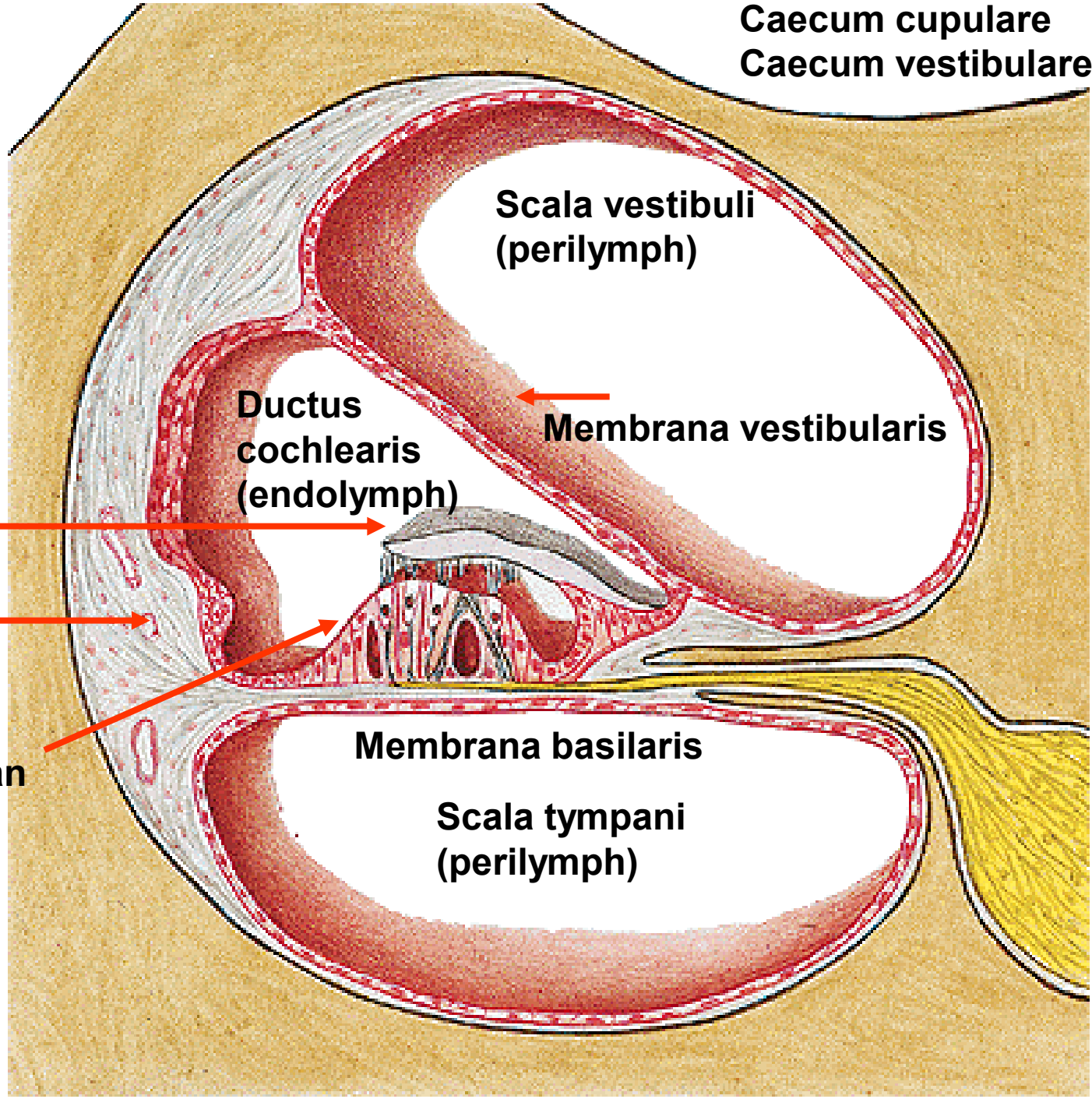
Membrana
tectoria

Stria
vascularis

Spiral organ
of Corti

Membrana basilaris

Scala tympani
(perilymph)

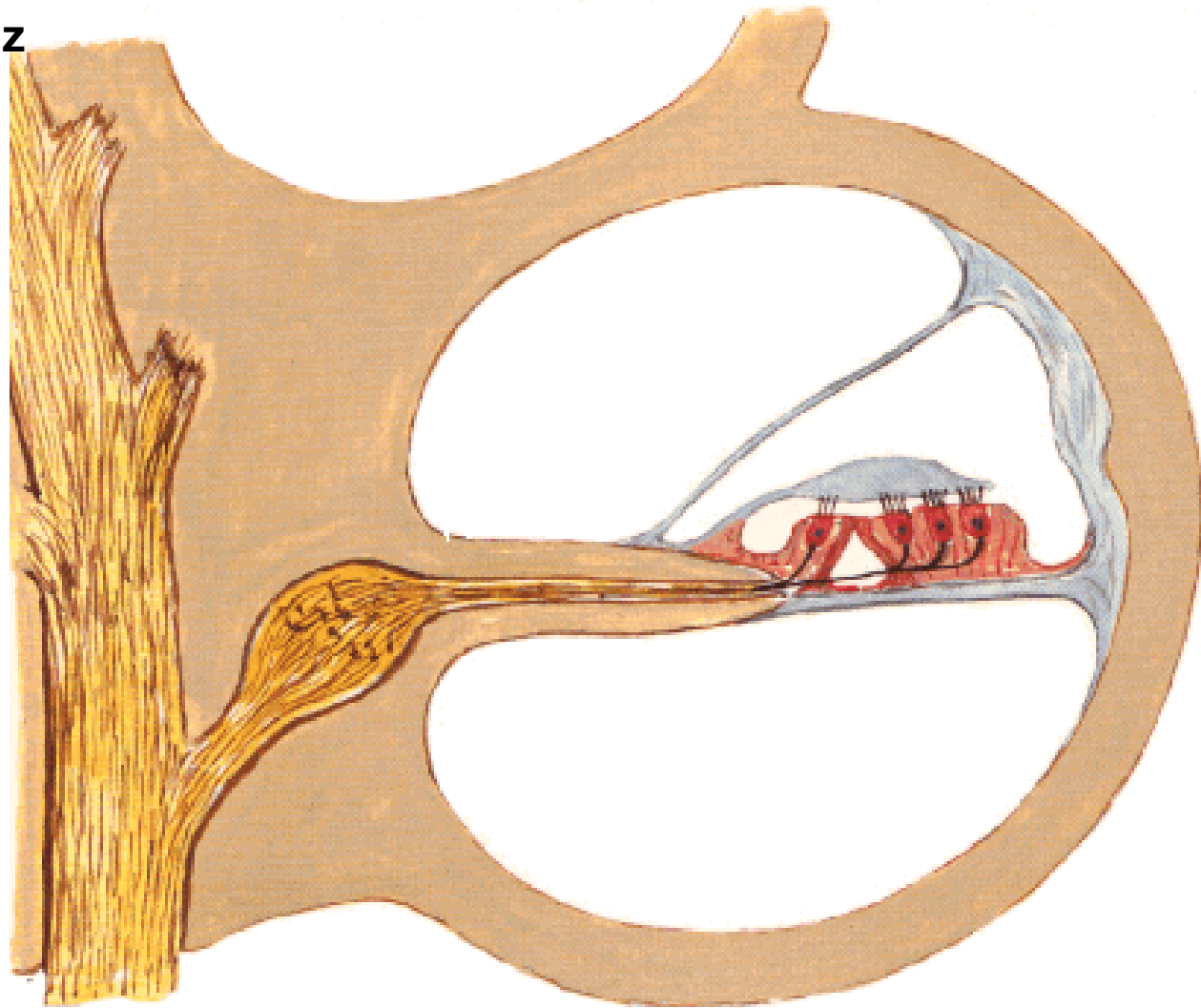


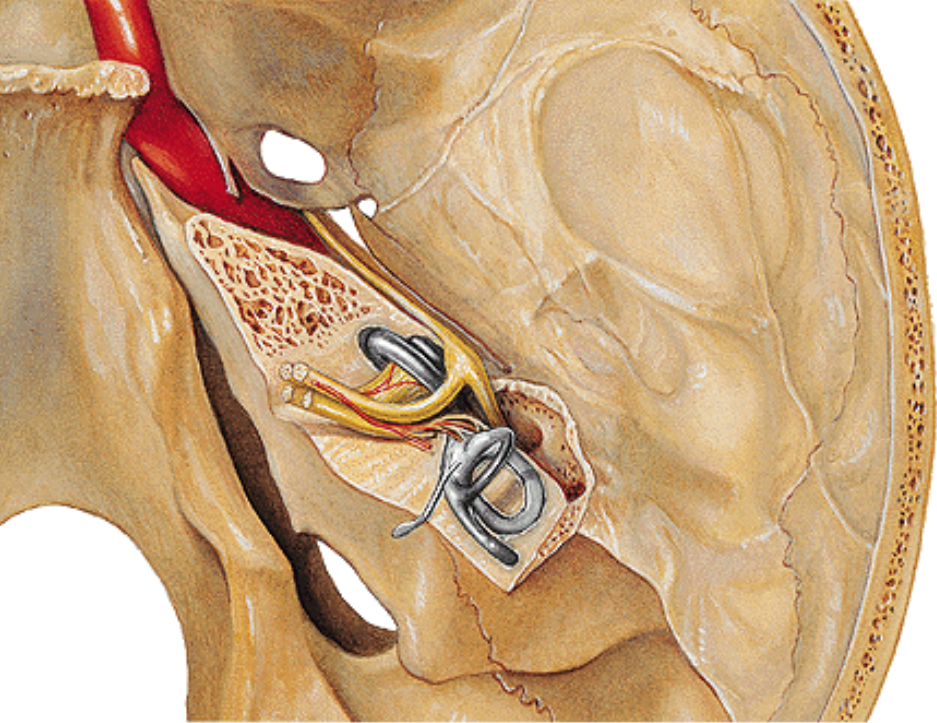
Osseous and Membranous Labyrinths

Section Through Turn of Cochlea

20-20000Hz

1500-3000Hz

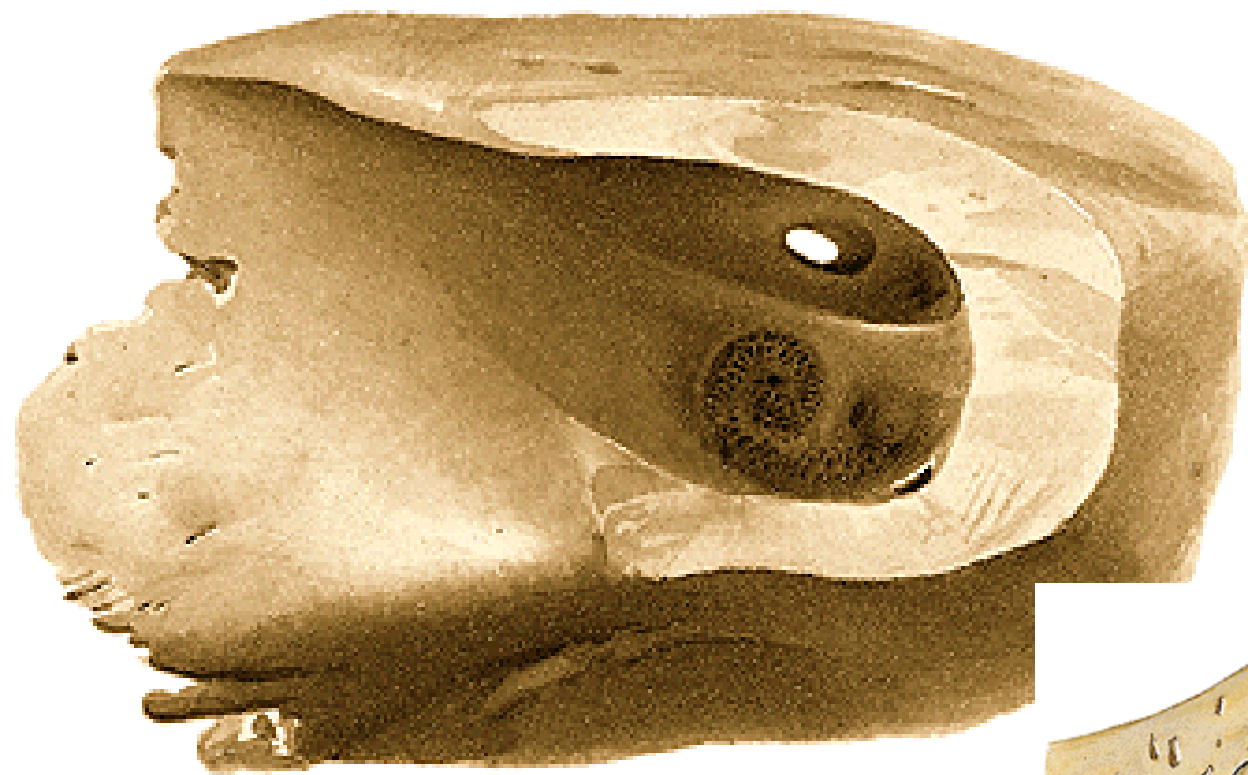




N. VESTIBULOCOCHLEARIS

- **PARS COCHLEARIS**
- **PARS VESTIBULARIS**
 - **N. utriculoampullaris**
 - **n. utricularis**
 - **n. ampullaris ant.**
 - **n. ampullaris lat.**
 - **N. saccularis**
 - **N. ampullaris post.**





FUNDUS MEATUS ACUSTICI INTERNI

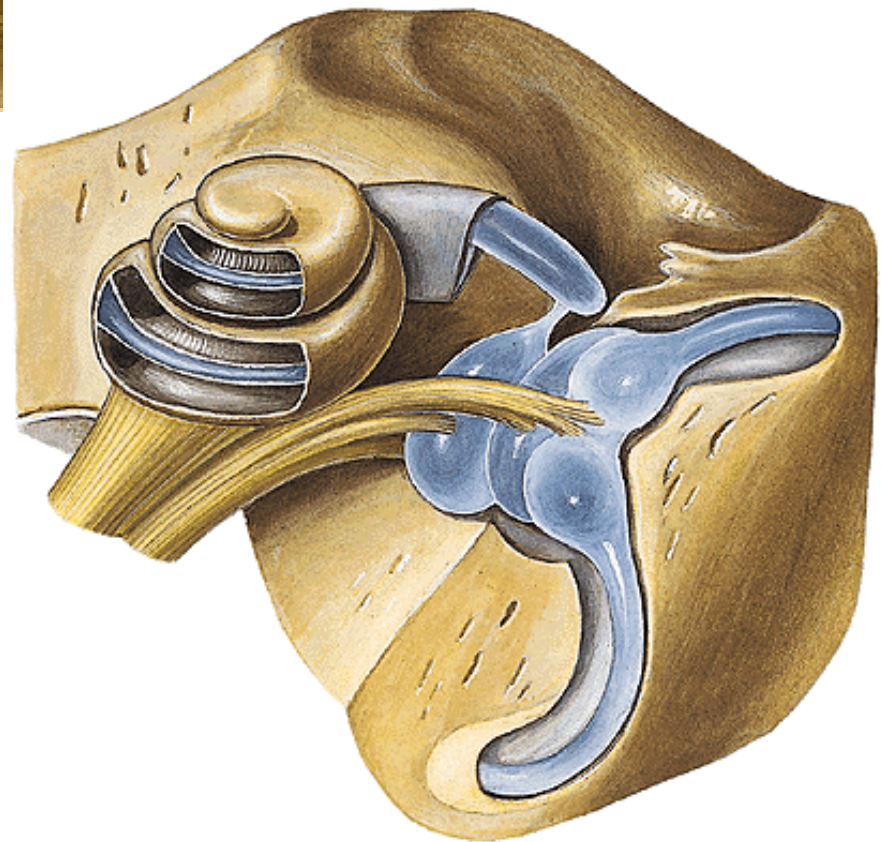
Introitus can. n. VII

Area cochlea

Area vestibularis sup.

Area vestibularis inf.

Foramen singulare



recessus ellipticus (utricle)

- macula cribrosa superior

n. utriculoampullaris
(macula statica utriculi
crista ampullaris anterior
et lateralis)

area vestibularis superior

recessus sphericus (sacculus)

- macula cribrosa media

n. saccularis
(macula statica sacculi)

area vestibularis inferior

recessus cochlearis

- macula cribrosa inferior

caecum vestibulare
n. ampullaris posterior
(crista ampullaris anterior)

foramen singulare

INTERNAL EAR:

A. AURICULARIS POST.

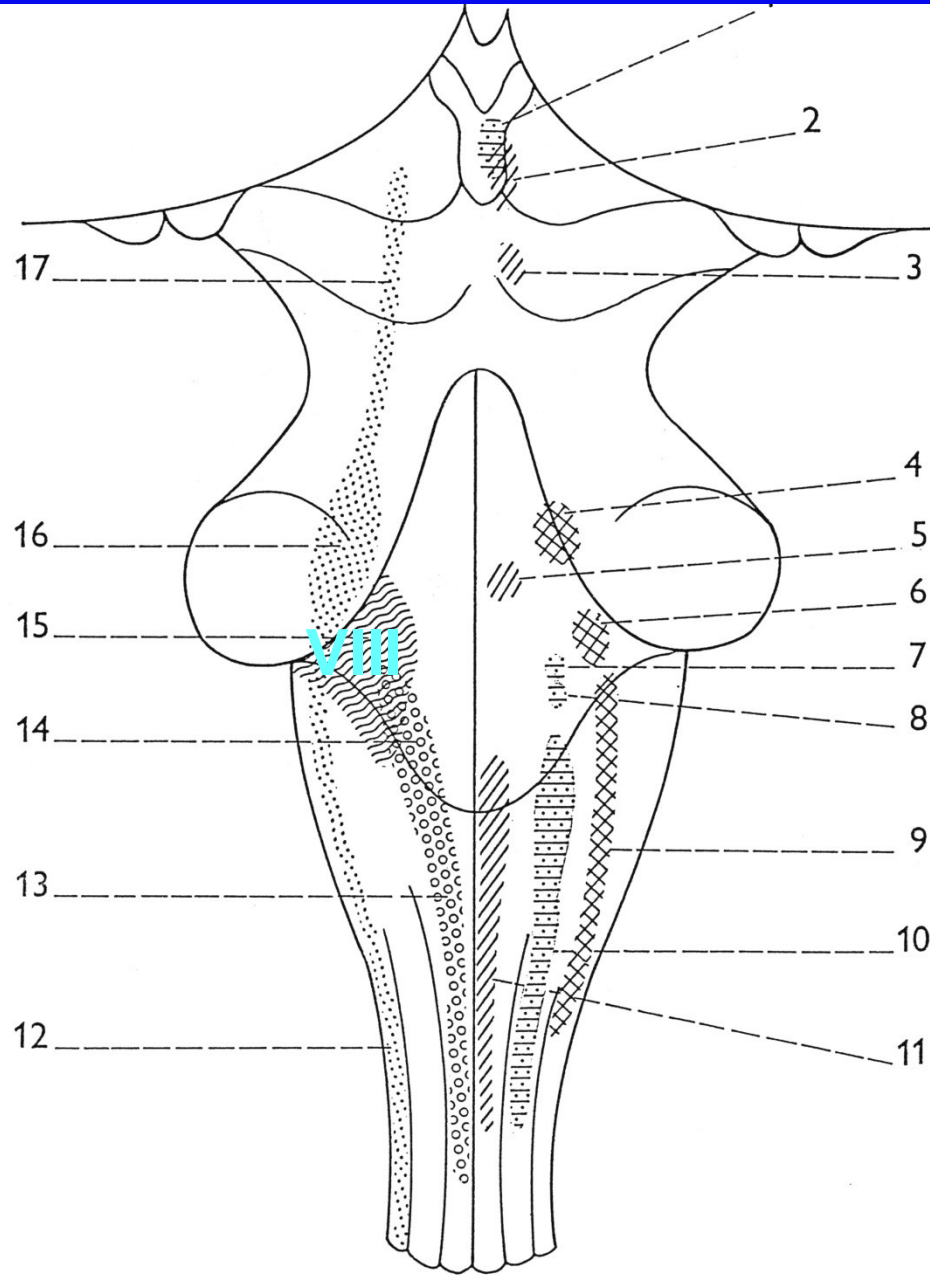
A. MENINGEA MEDIA

A. LABYRINTHI (A. BASILARIS)

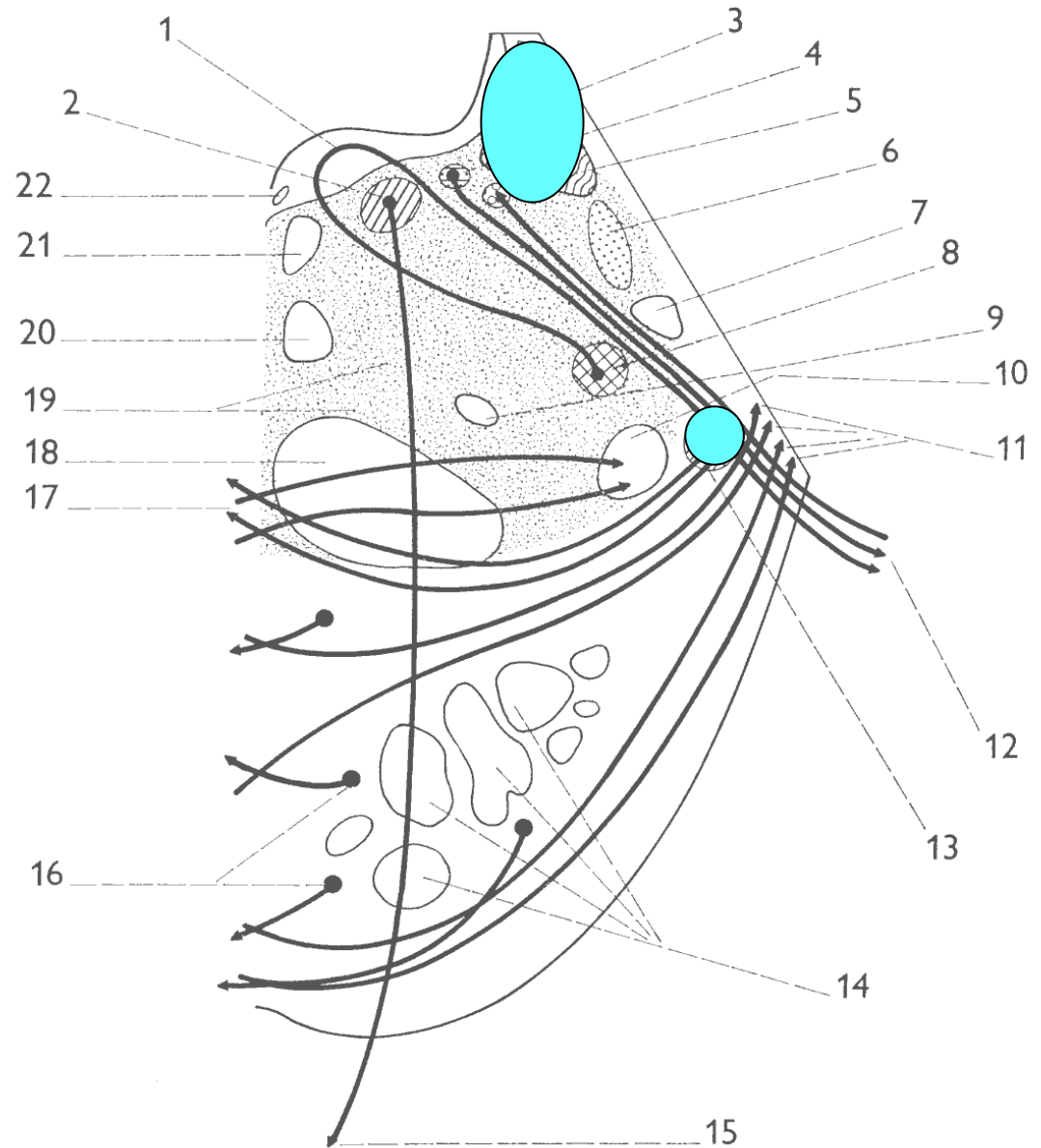
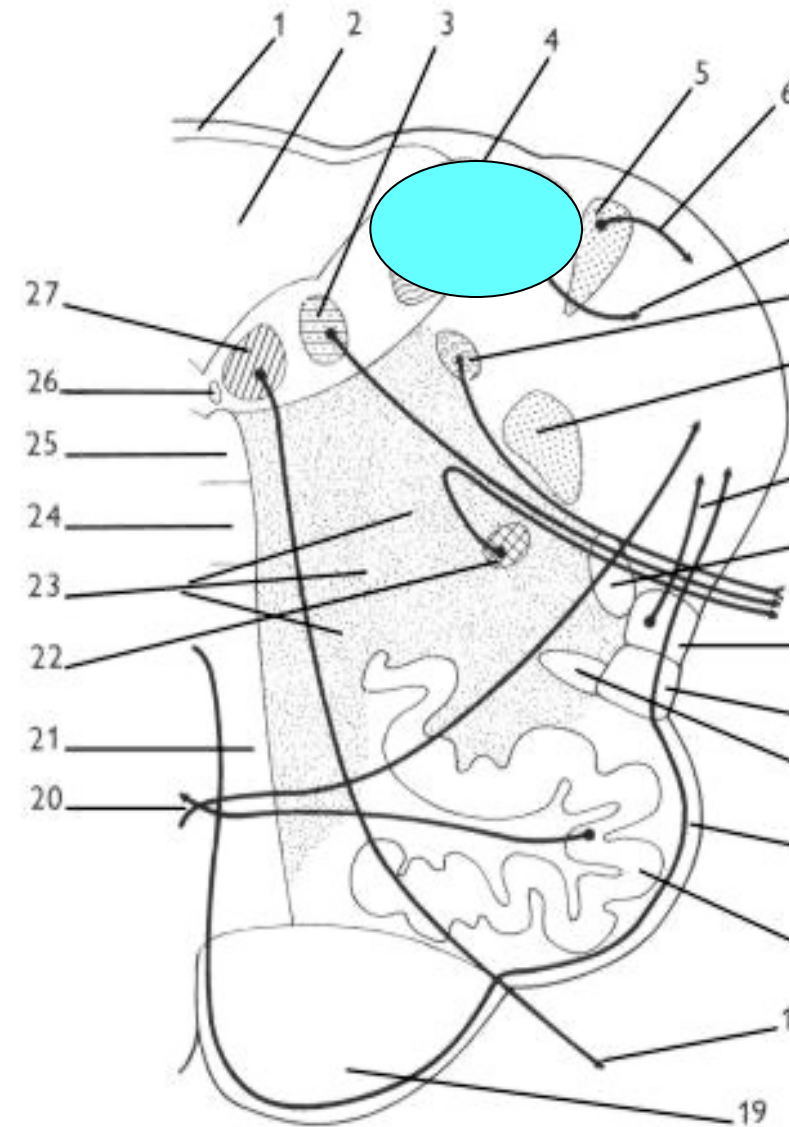
VV. LABYRINTHI (SINUS PETROSUS INF.)

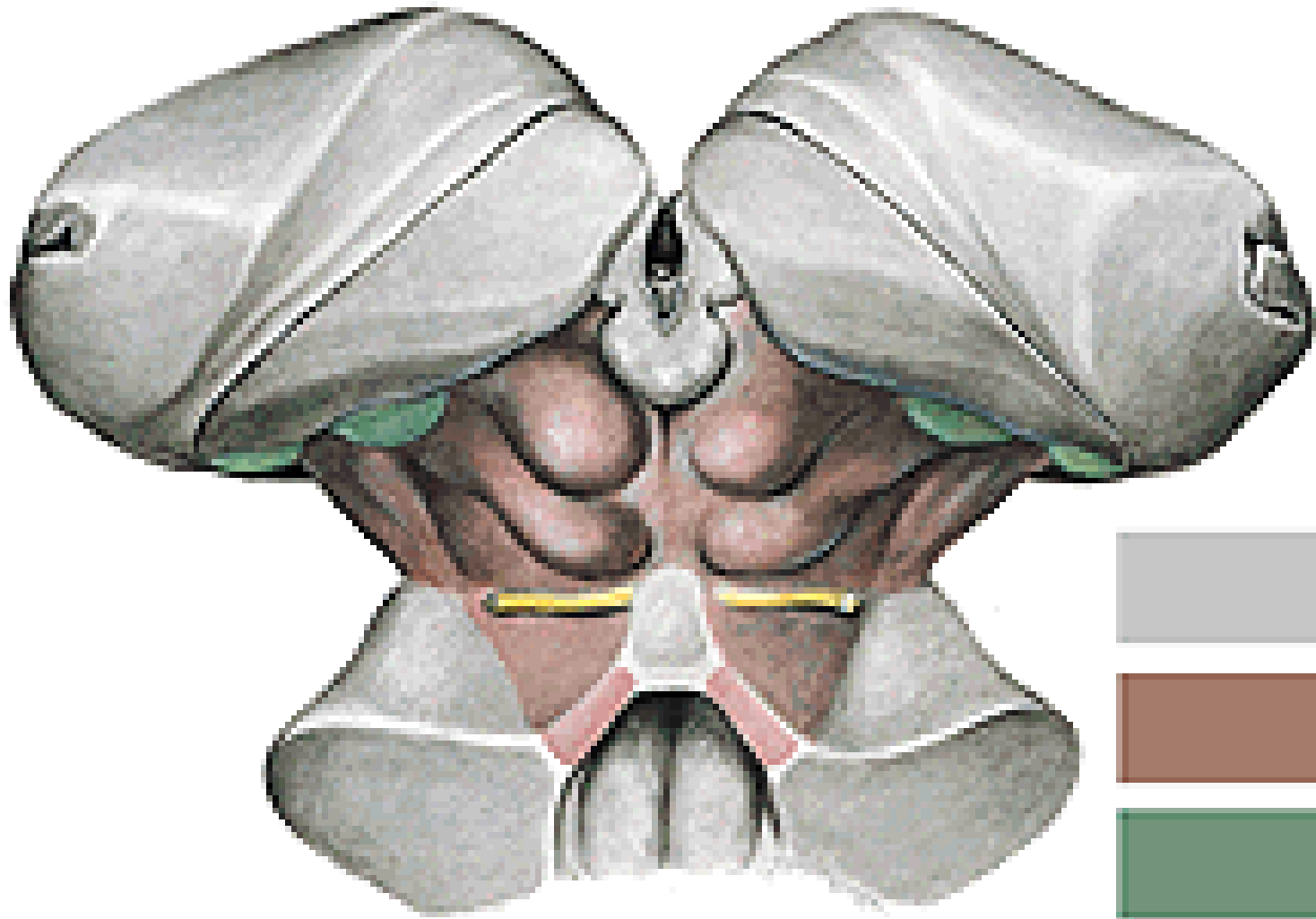
V. CANALICULI COCHLAE (BULBUS V. JUGULARIS INT.)

NCLL. COCHLEARES ET VESTIBULARES

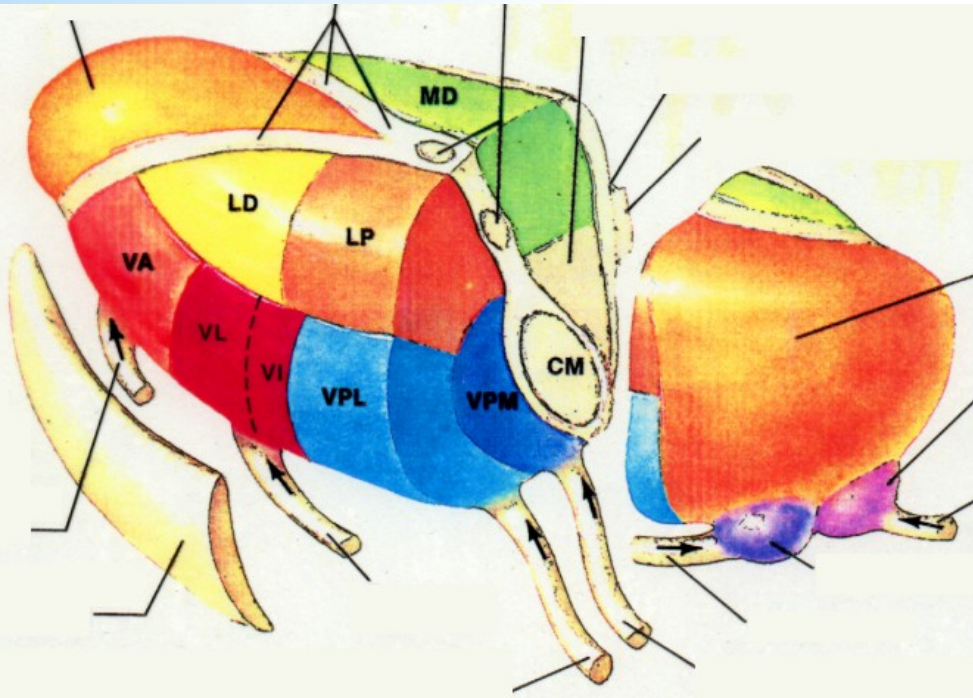


NCLL. COCHLEARES ET VESTIBULARES





THALAMUS



CORTEX

