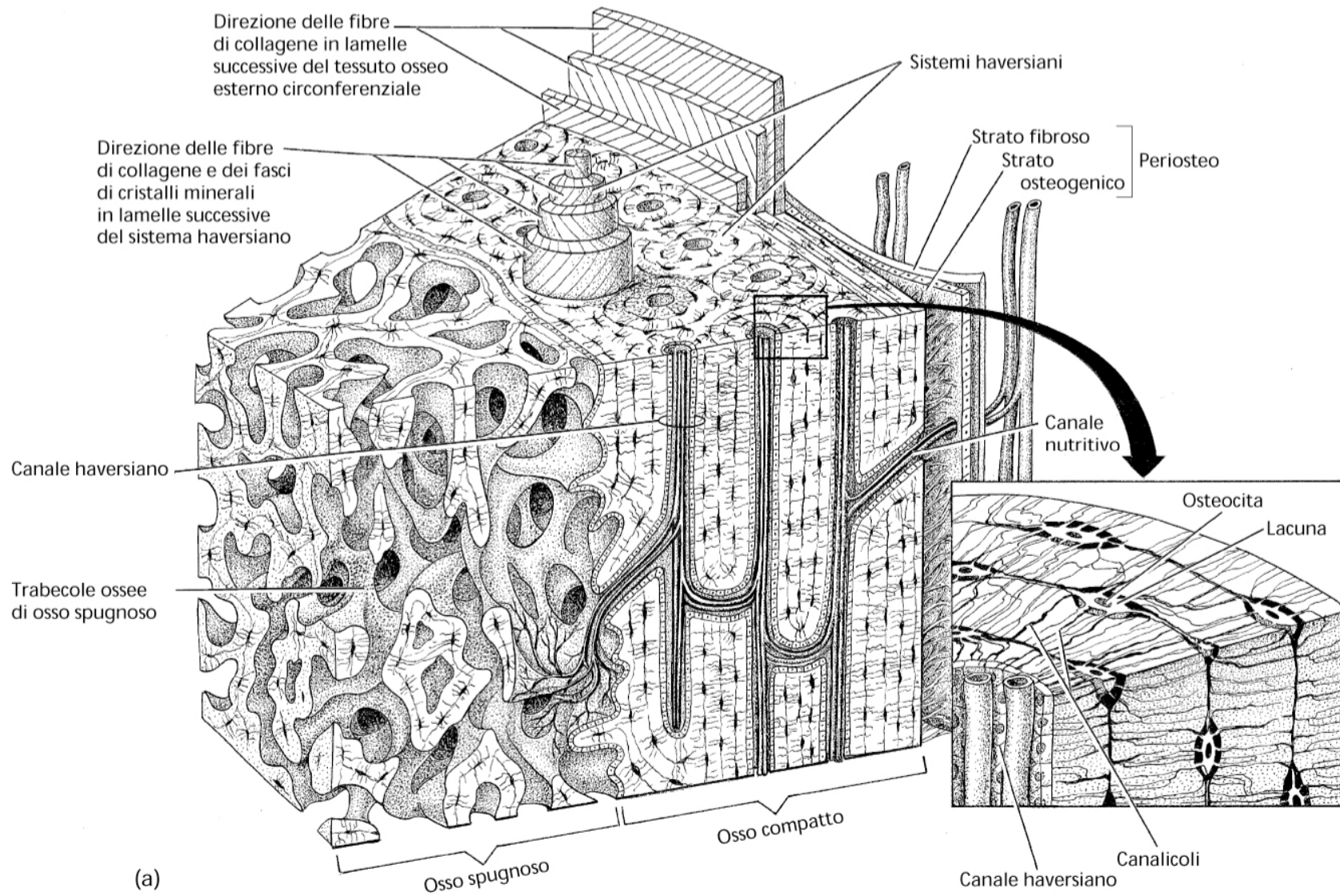
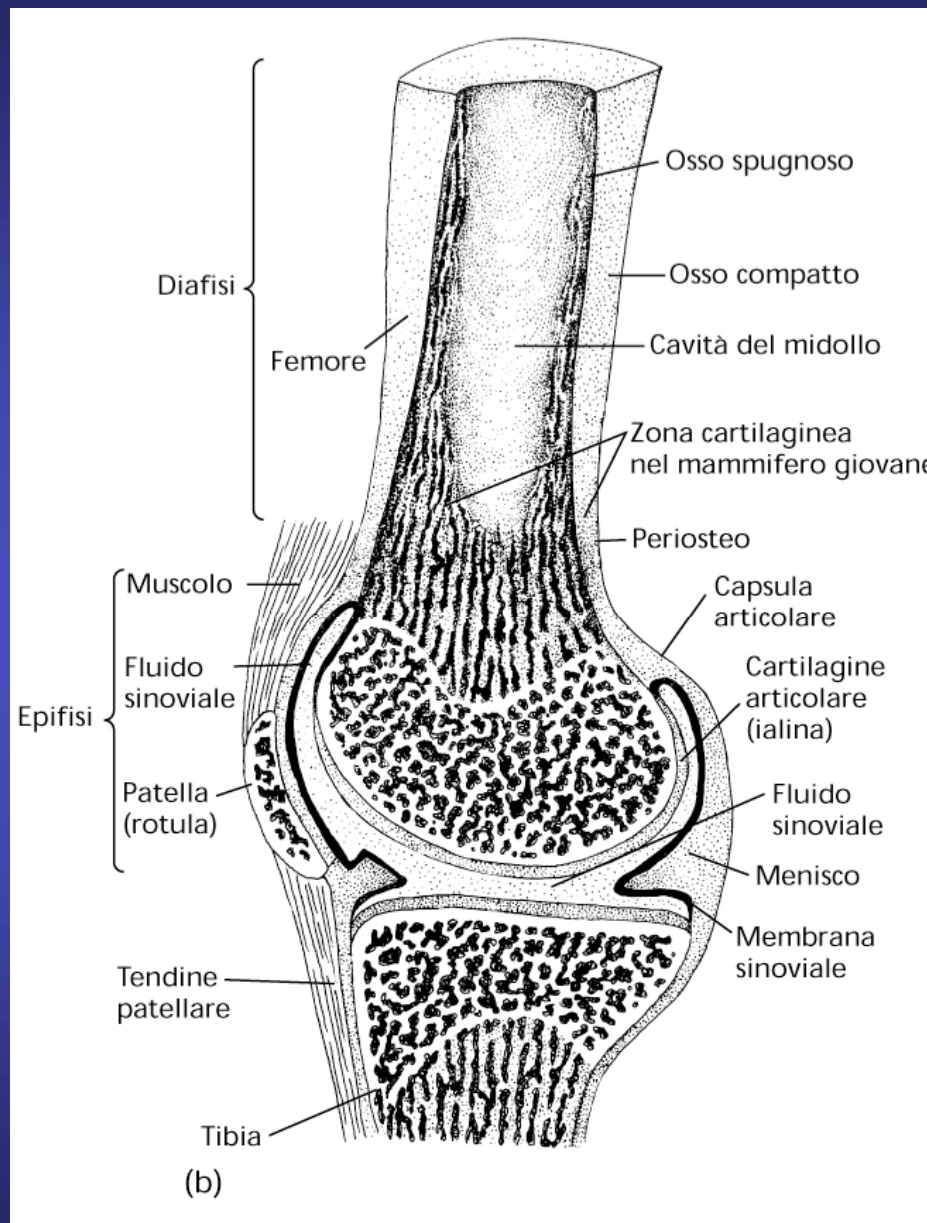
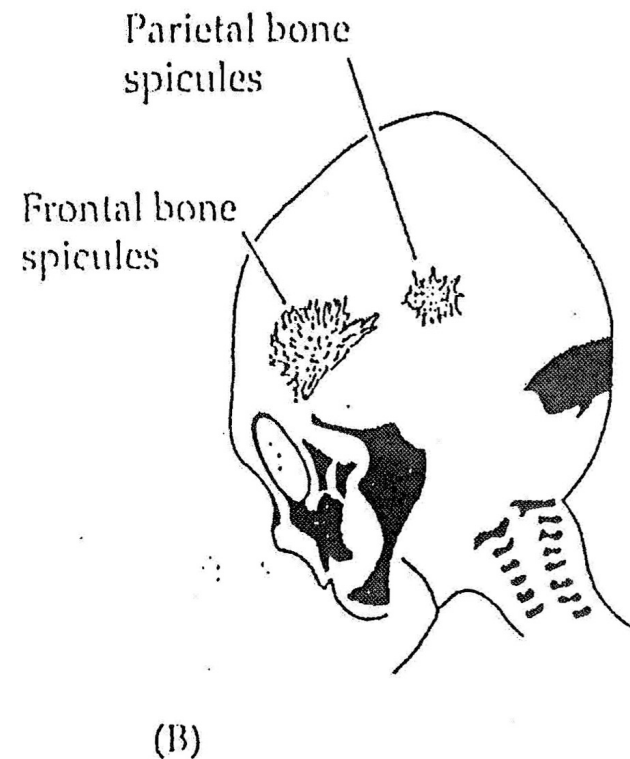
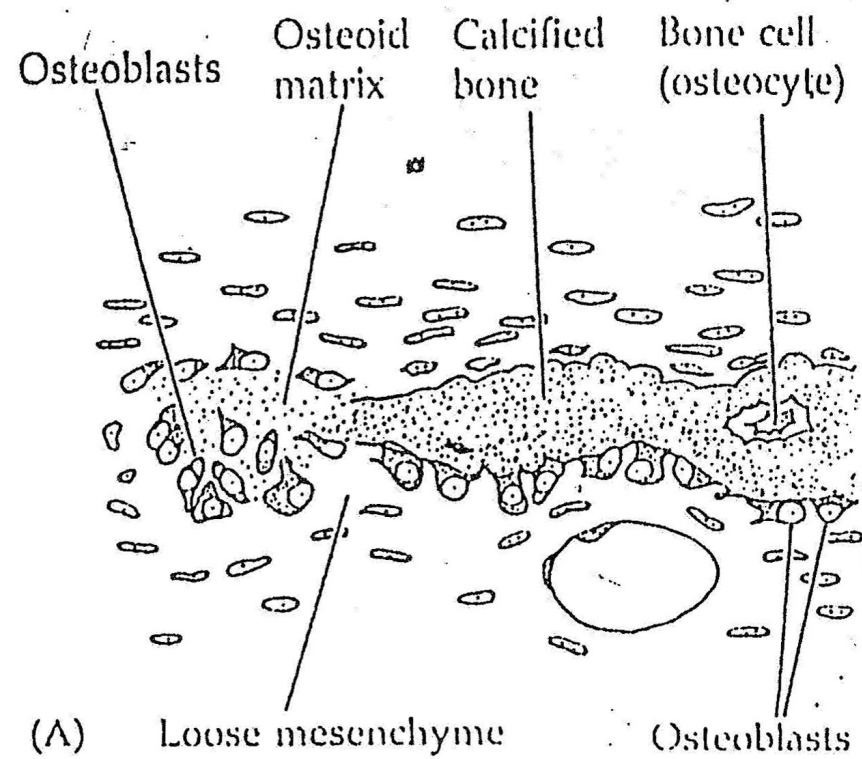
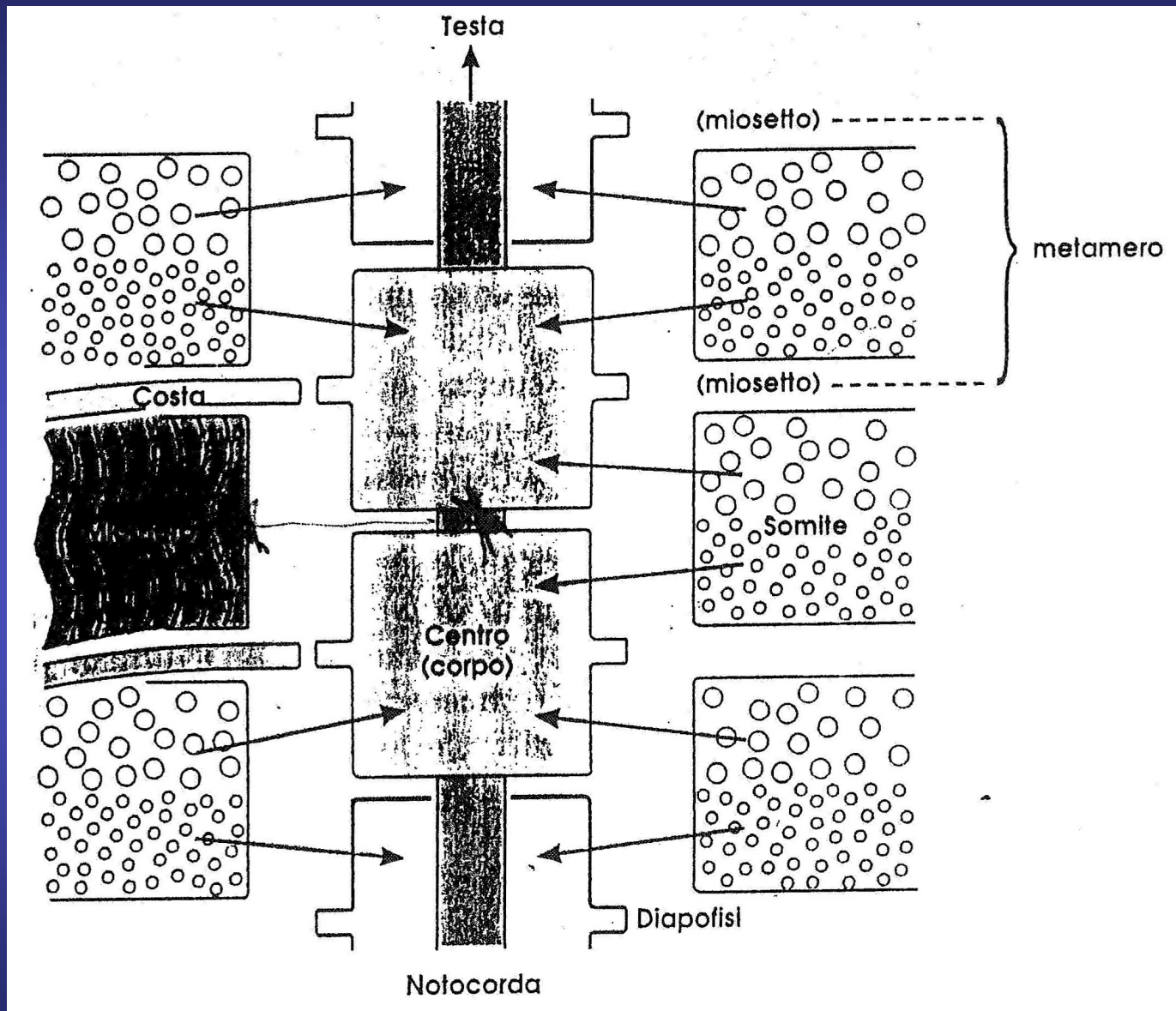
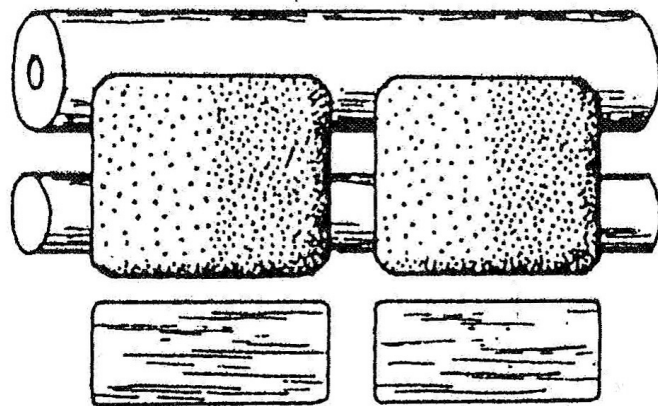




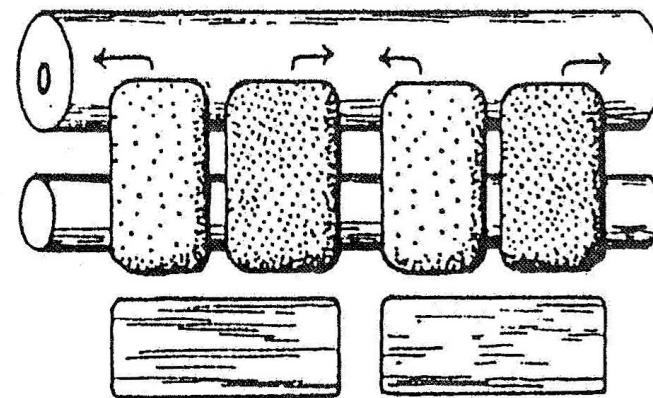




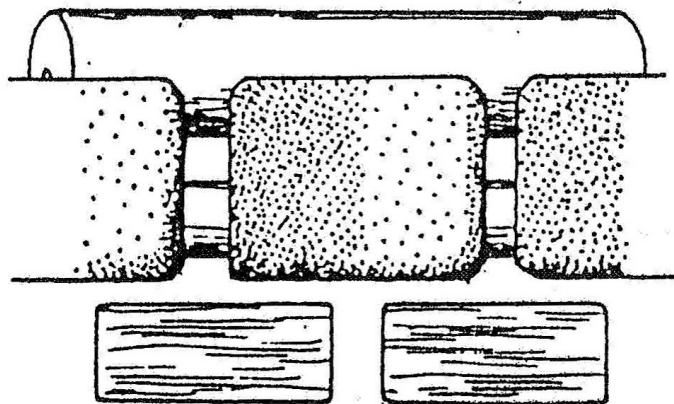




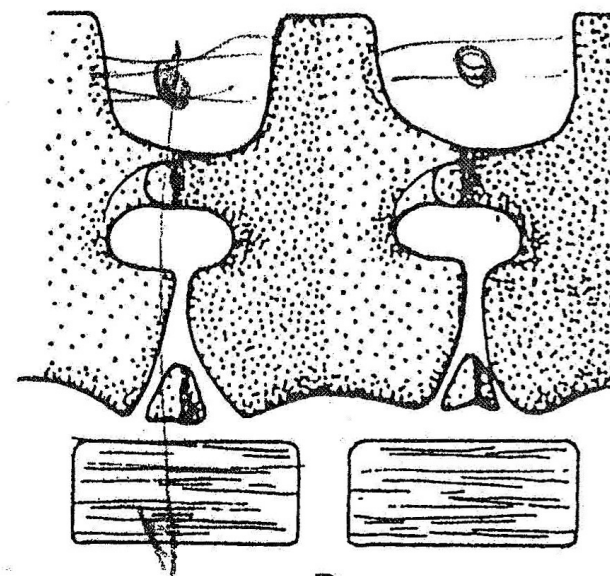
A



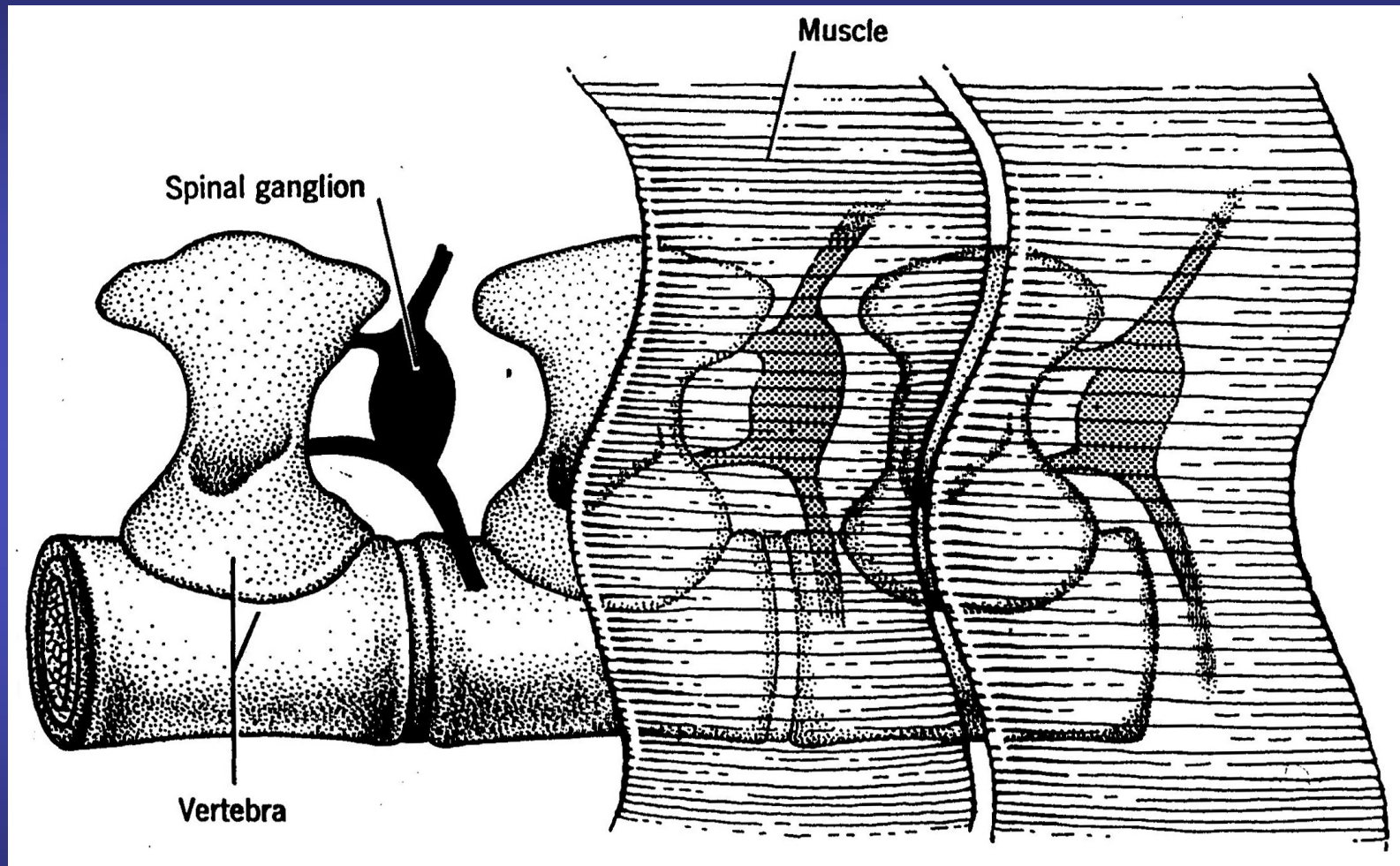
B

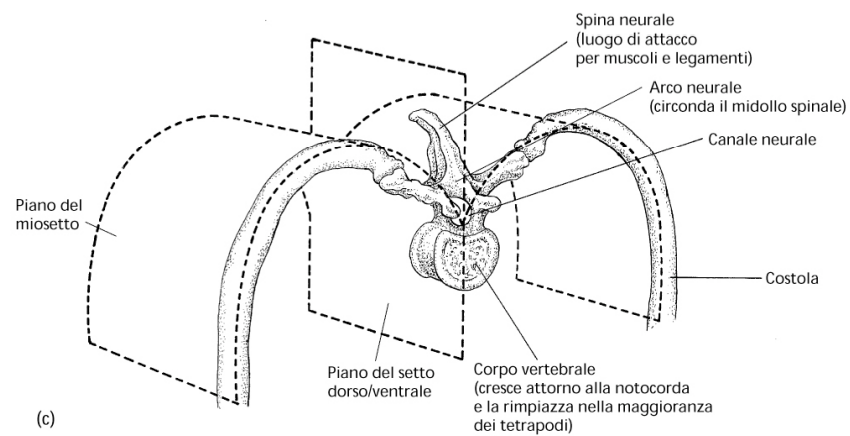
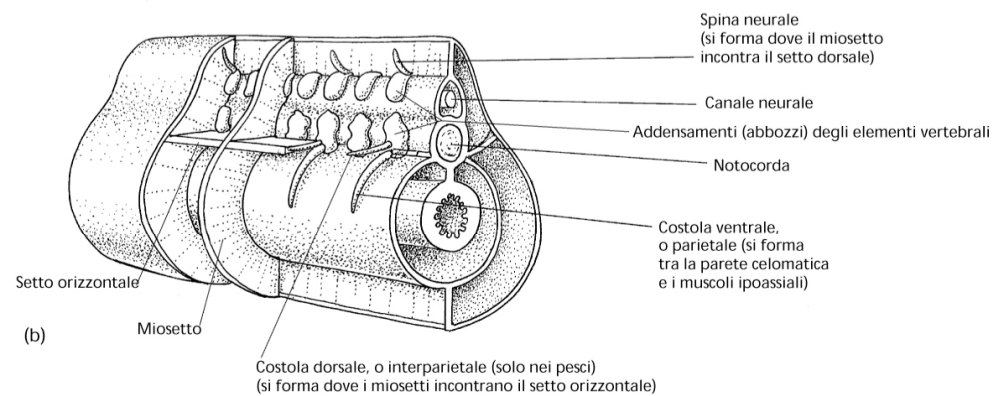
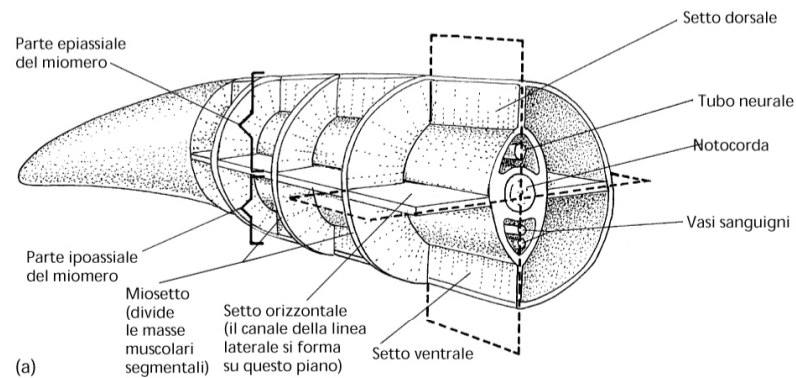


C

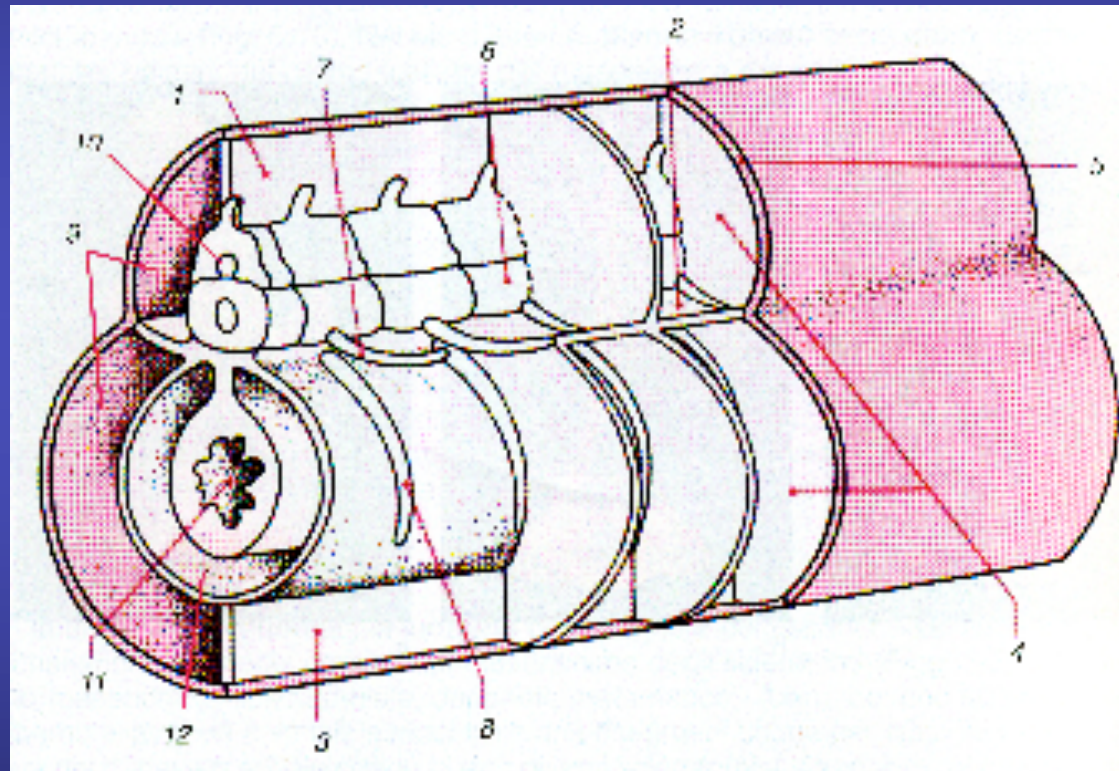


D

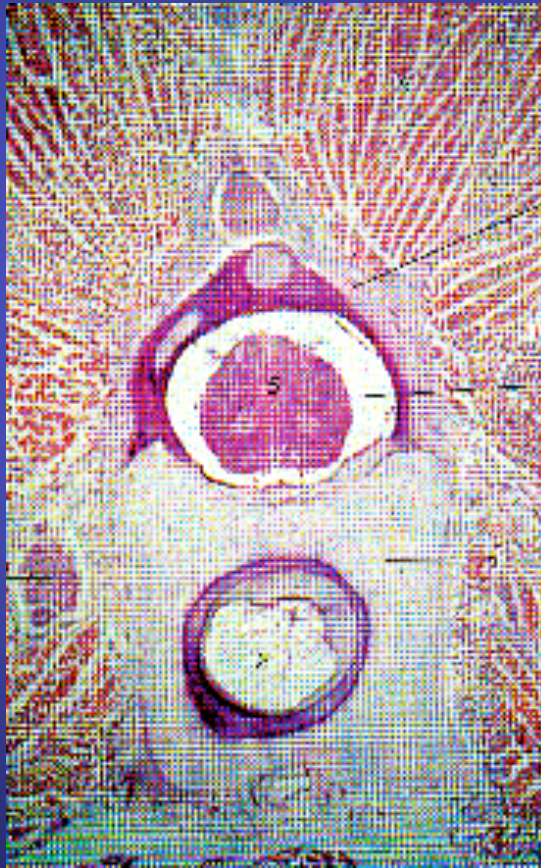




TRONCO VERTEBRATO GENERALIZZATO



VERTEBRA SELACO



STRUTTURA DELLE VERTEBRE

- CENTRO O CORPO VERTEBRALE
- DISCHI INTERVERTEBRALI
- ARCO NEURALE
- ARCO EMALE
- PROCESSI O APOFISI (ZIGAPOFISI-DIAPOFISI-PARAPOFISI)

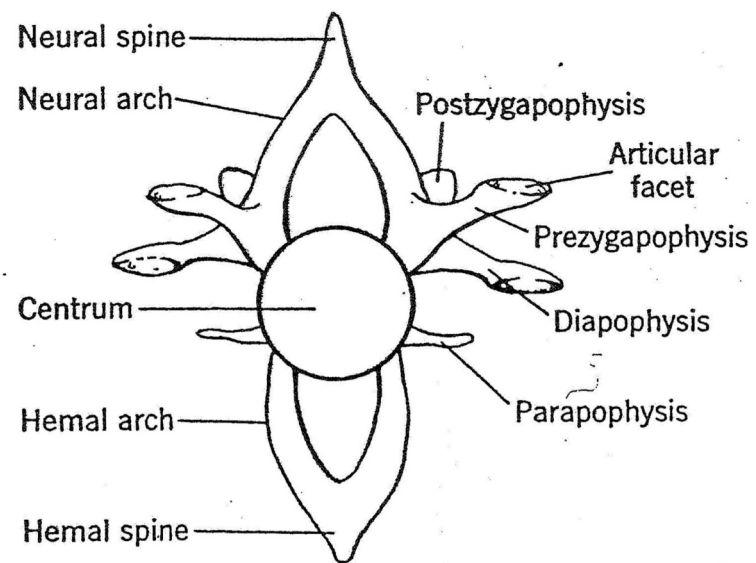
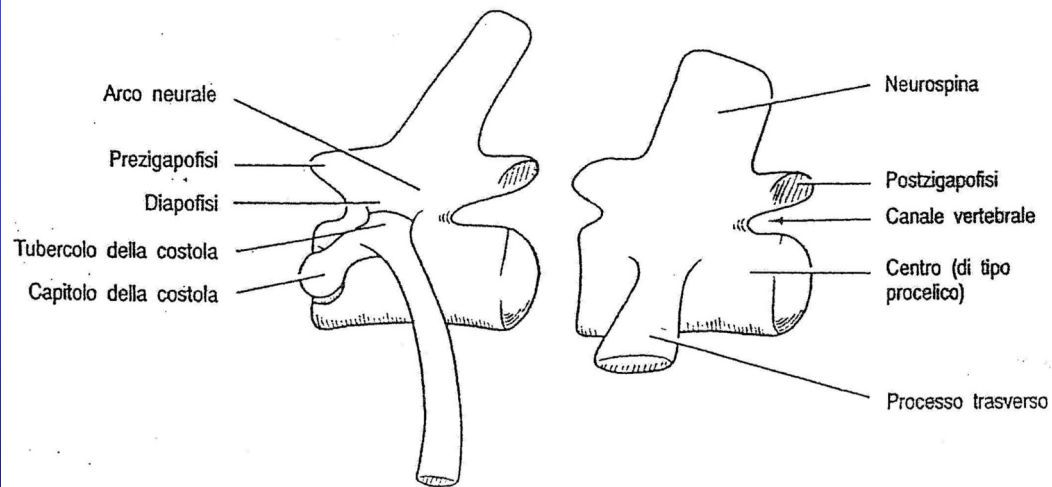
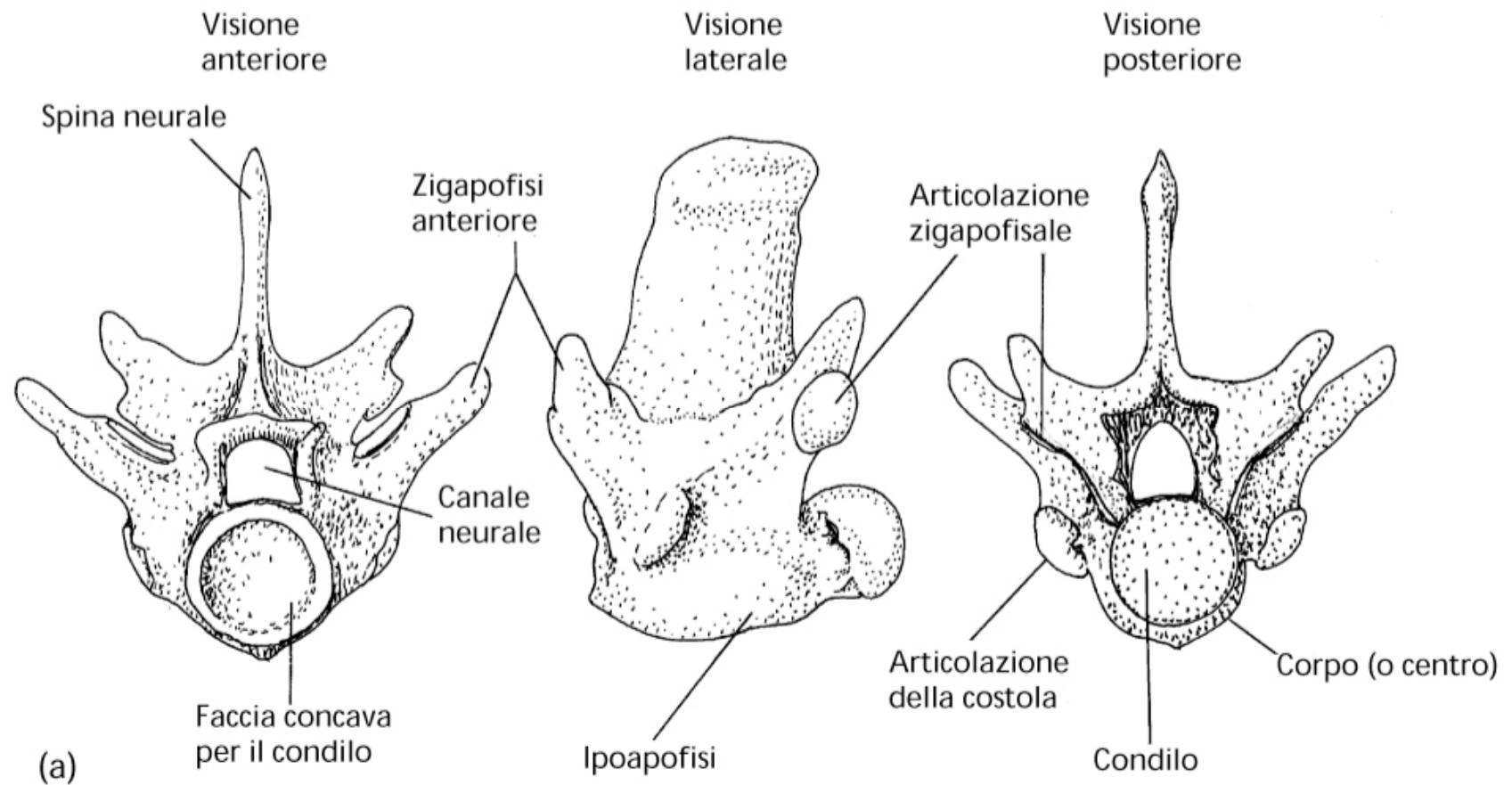
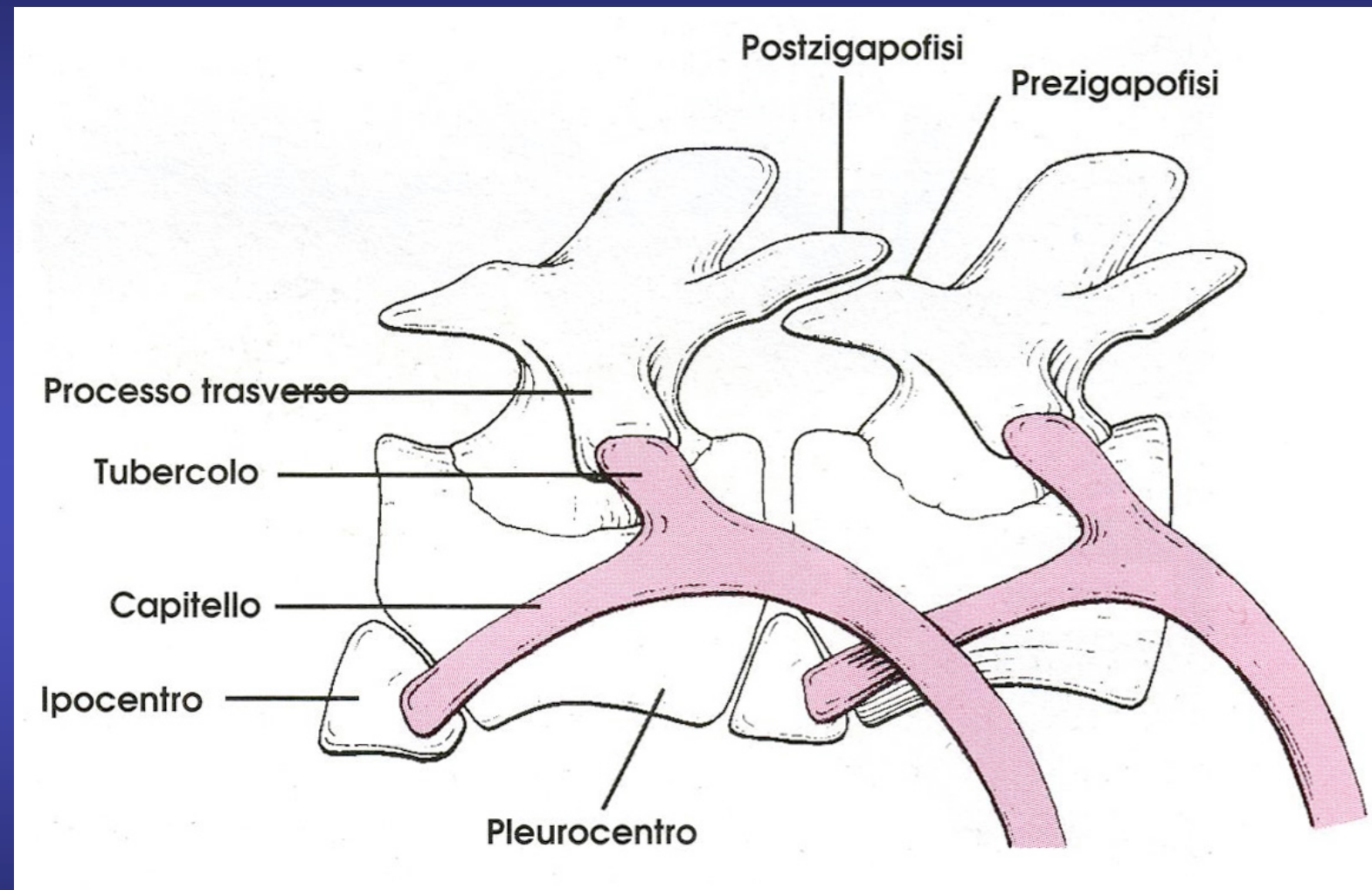


Figure 12-26. Diagram of a "typical" vertebra.

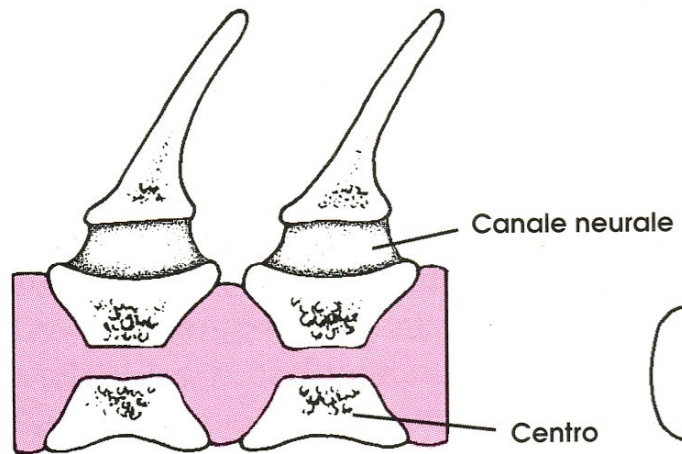




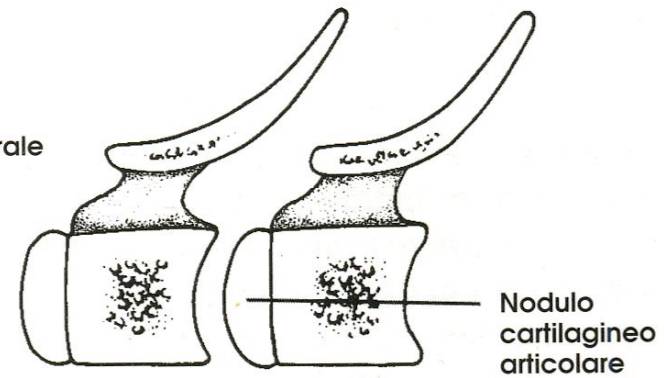


FORMA DELLE VERTEBRE

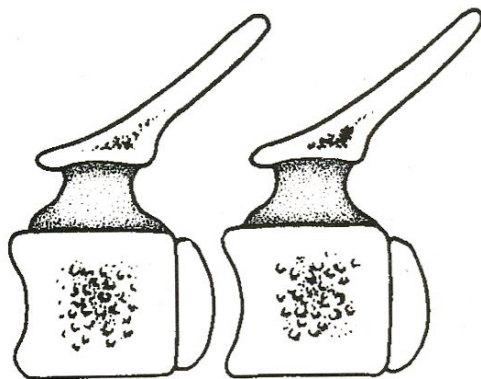
- ANFICELI: Concavità sia nella parte anteriore che posteriore del corpo
- ACELI O ANFIPIANE: Piatte. E' presente un disco intervertebrale
- PROCELI: Concavità anteriore
- OPISTOCELI: Concavità posteriore
- ETEROCELI: A forma di sella
- ACENTRICHE: Prive di centro



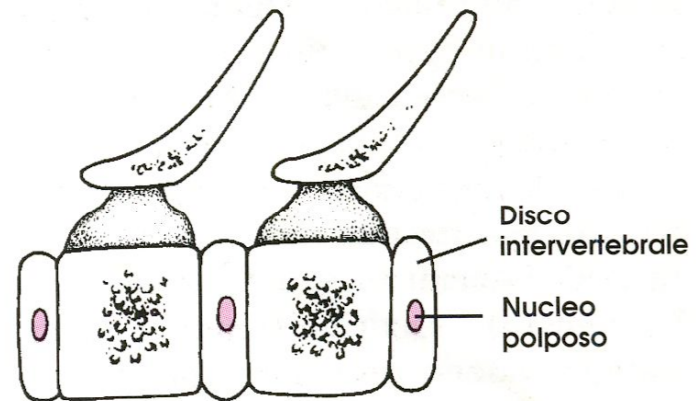
A. ANFICELI



B. OPISTOCELI



C. PROCELI



D. ACELI

VERTEBRE

TIPO

GRUPPO

ANFICELI (2 concavità)

Pesci-Urodeli-Amnioti primitivi

ACELI (piatte)

Mammiferi

PROCELI (conc. Anteriore)

Rettili e Anfibi attuali

OPISTOCELI

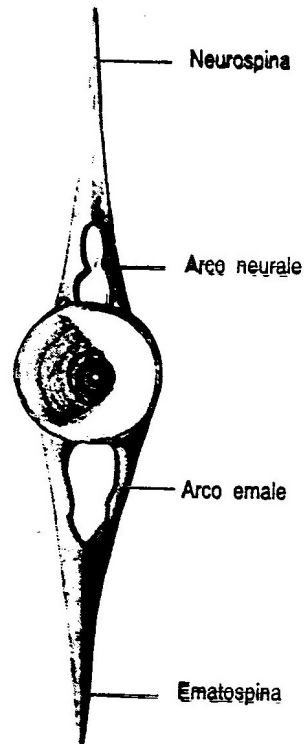
Olostei-Alcuni Rettili- Collo Ungulati

ETEROCELI

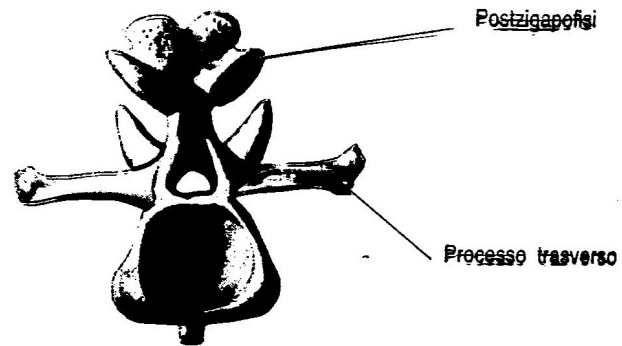
Uccelli (collo)

ACENTRICHE

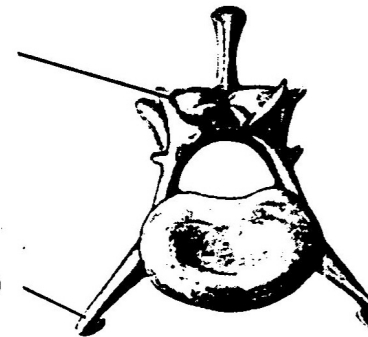
Lamprede-Olocefali-Dipnoi-
Condrostei (Acipenser)
Latimeria (Crossopterigio)



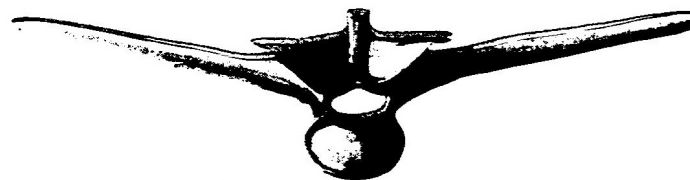
ANFICELE
 Salmone, *Salmo*
 Centro concavo
 anteriormente e posteriormente



OPISTOCELE
 Tartaruga, *Chelys*
 Centro concavo
 posteriormente



ANFIPIANA
 Lince, *Lynx*
 Centro a facce
 articolari piane

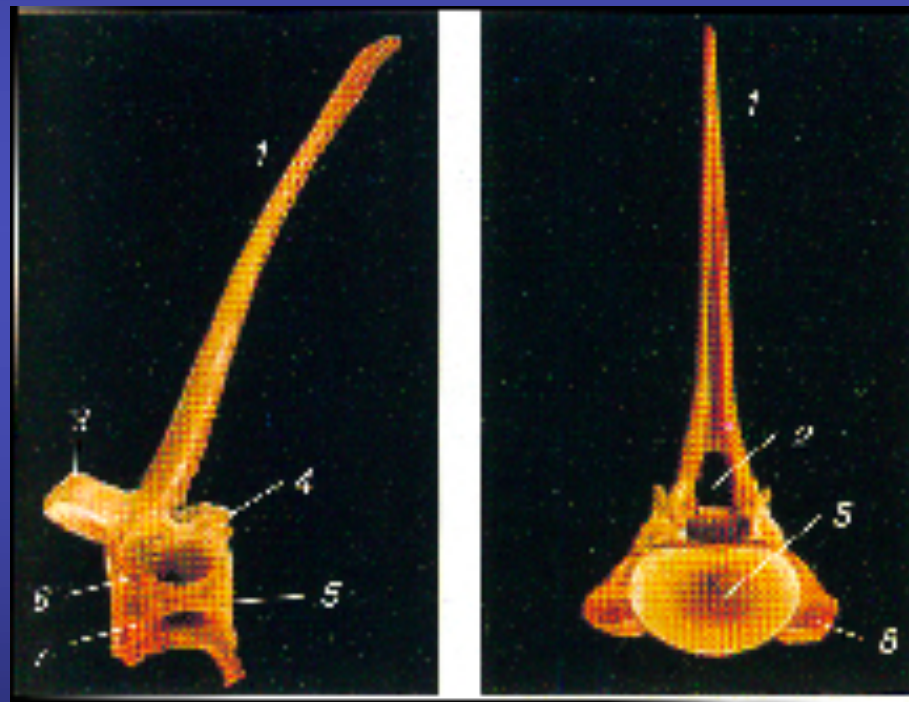


PROCELE
 Rospo, *Bufo*
 Centro concavo
 anteriormente

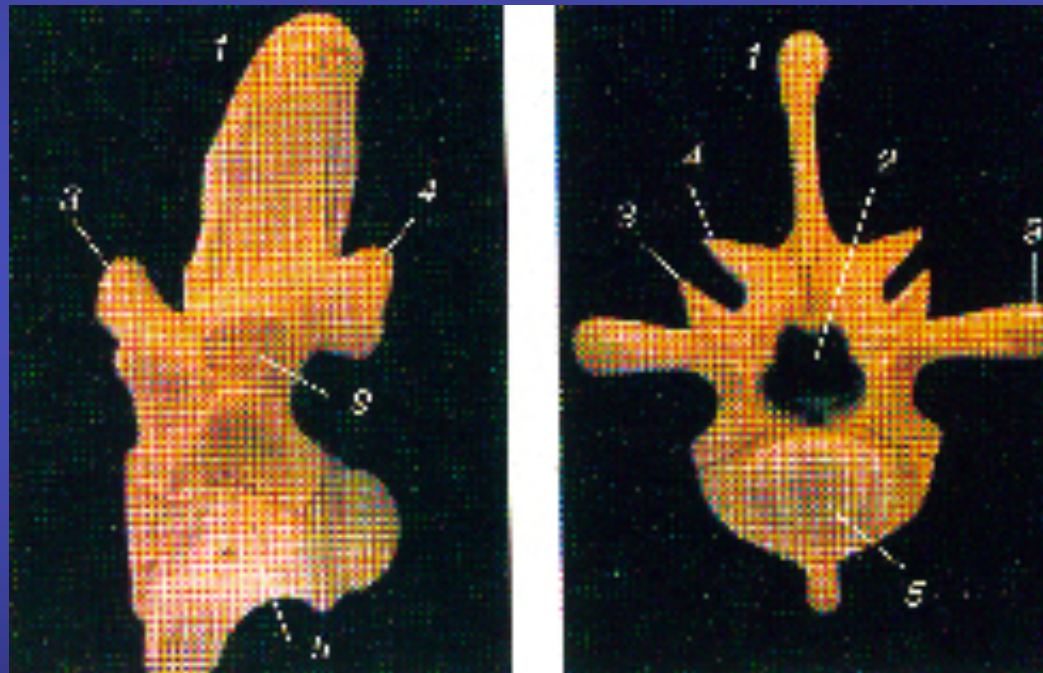


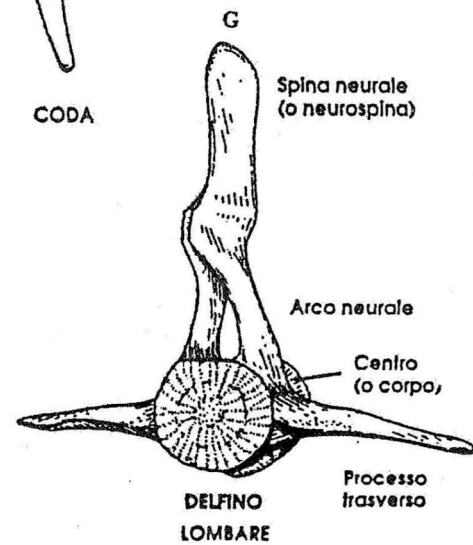
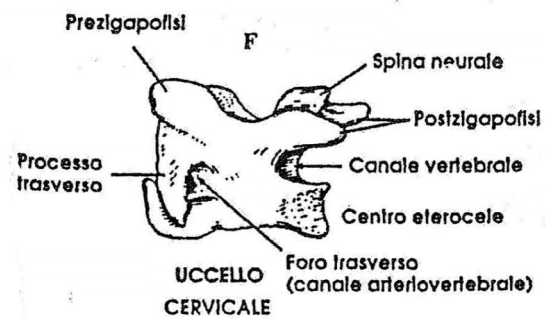
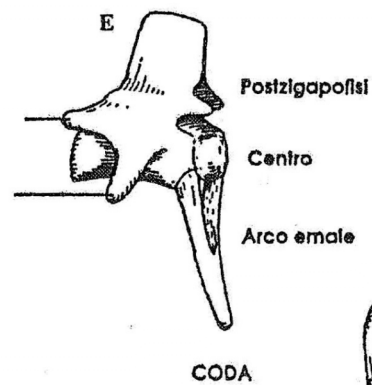
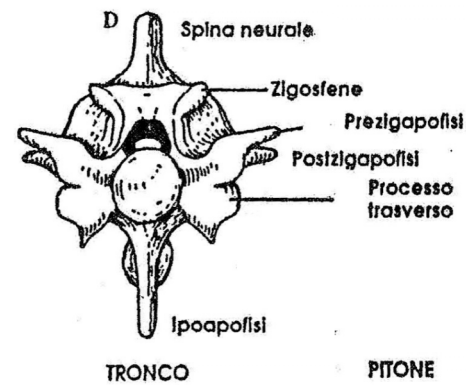
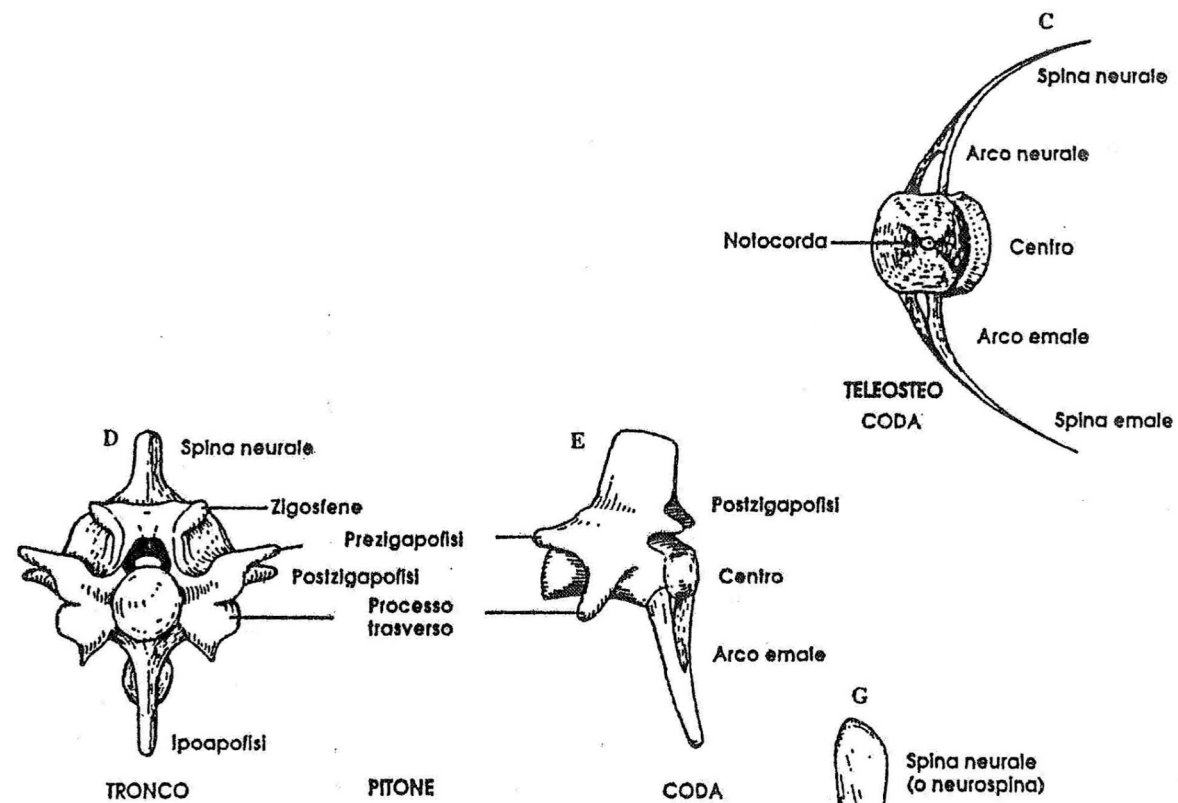
ETEROCELE
 Pellicano, *Pelecanus*
 Centro con facce
 articolari a forma di sella

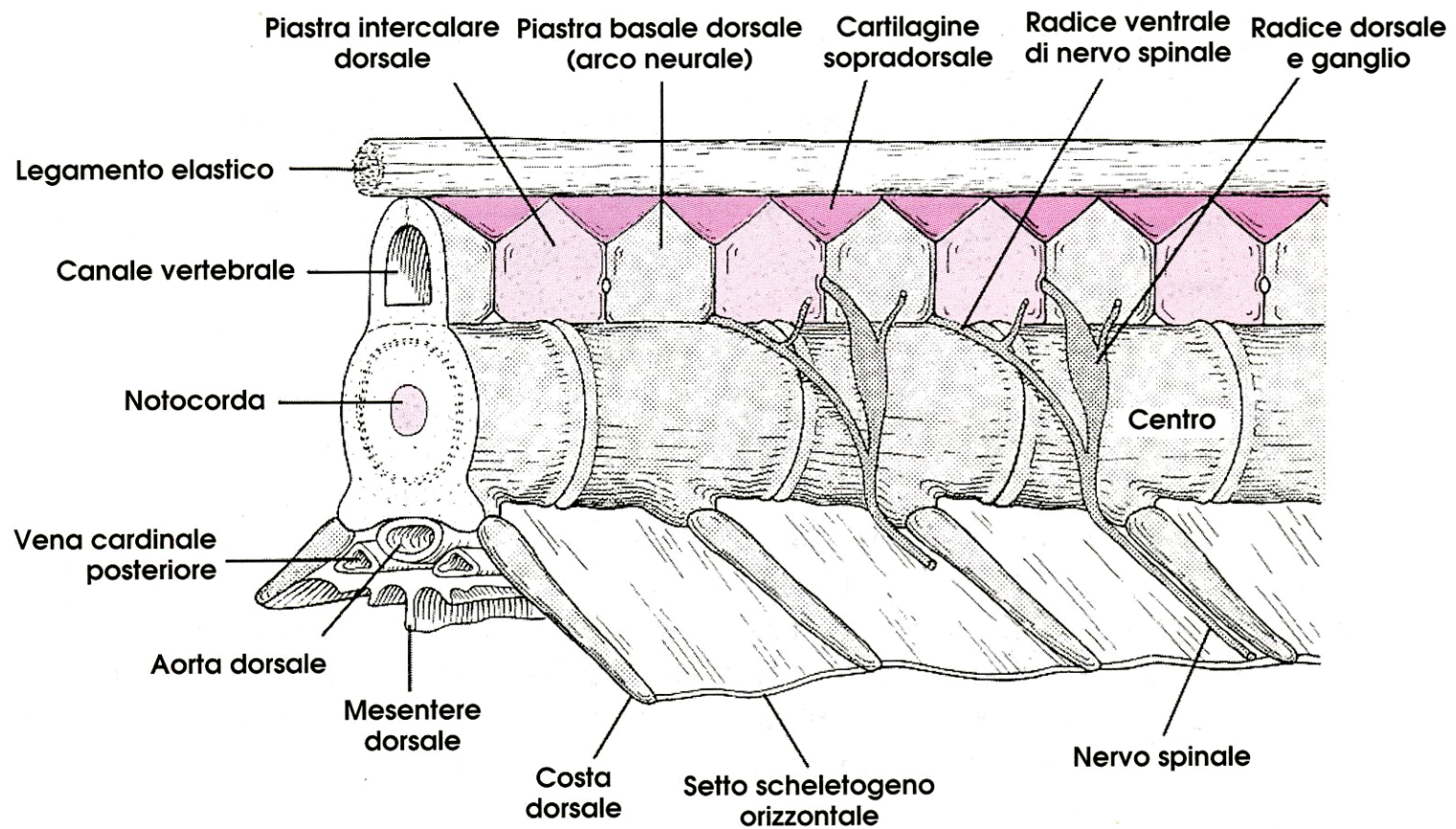
VERTEBRA ANFICELE

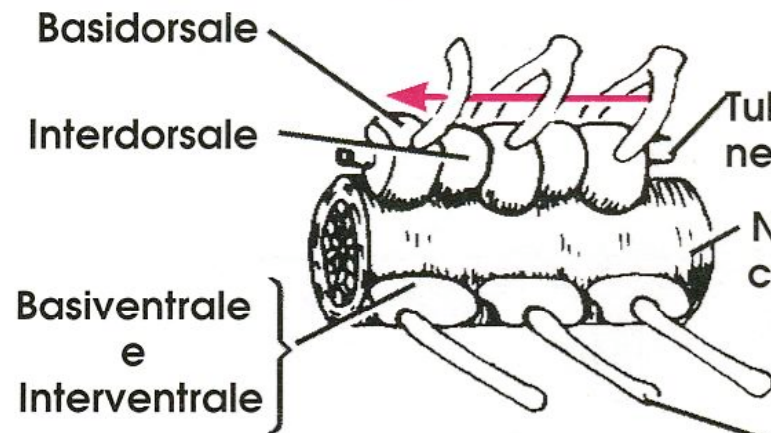


VERTEBRA PROCELE

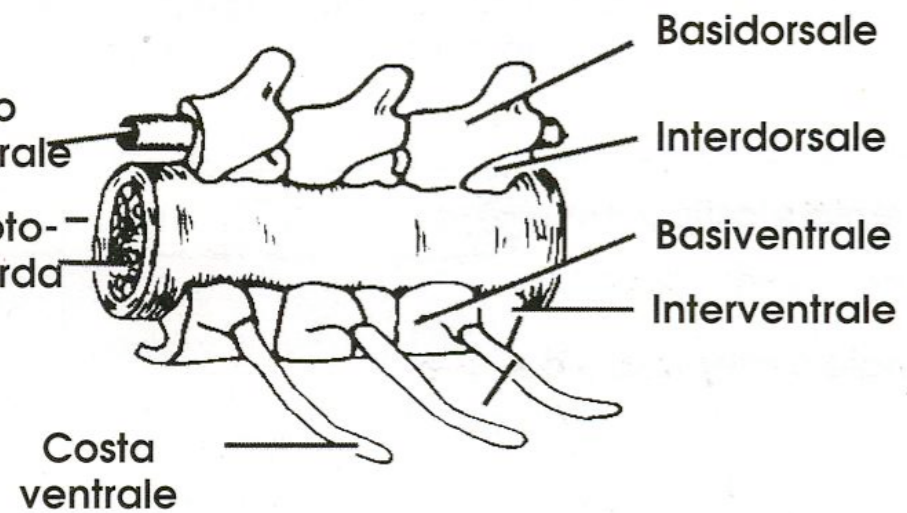






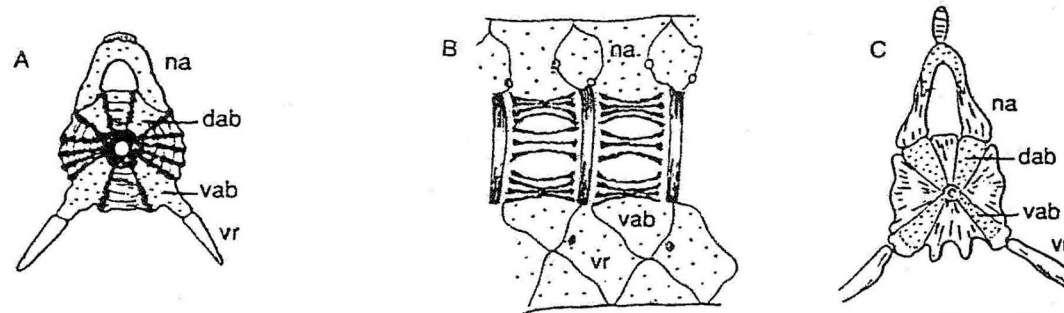


DIPNOO (Coda)

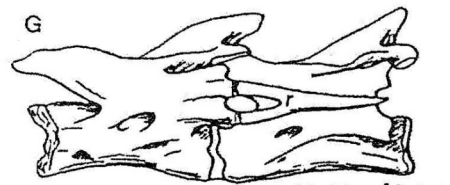
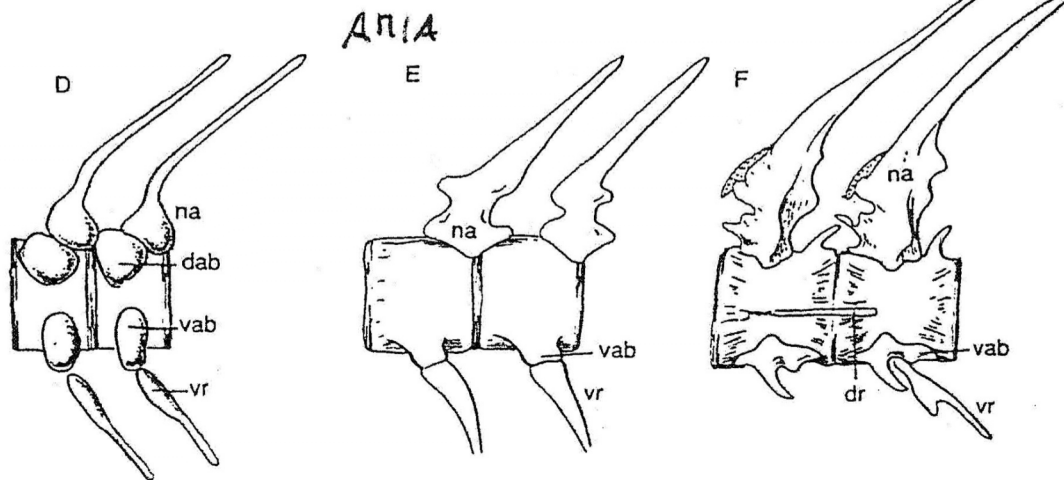


STORIONE (Tronco)

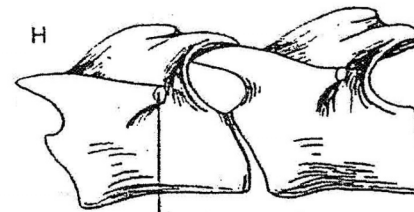
SELA CIO



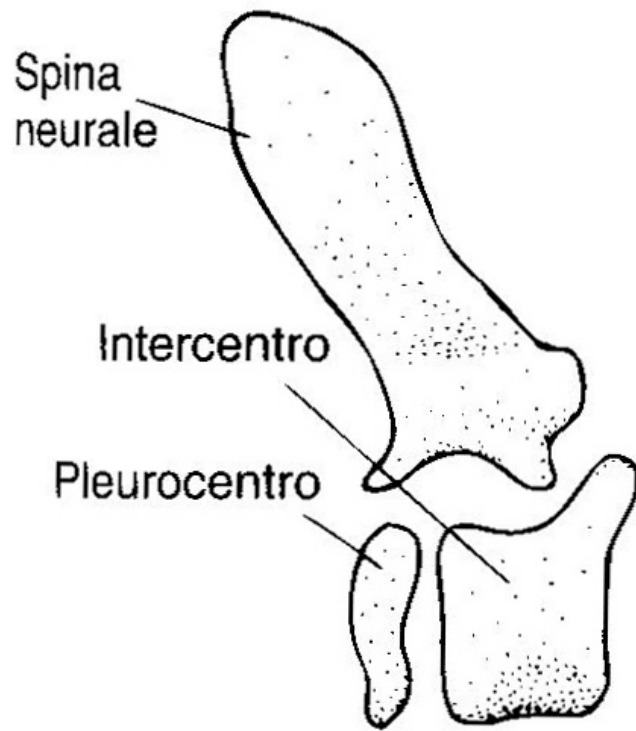
TELEOSTEO



SALAMANDRA

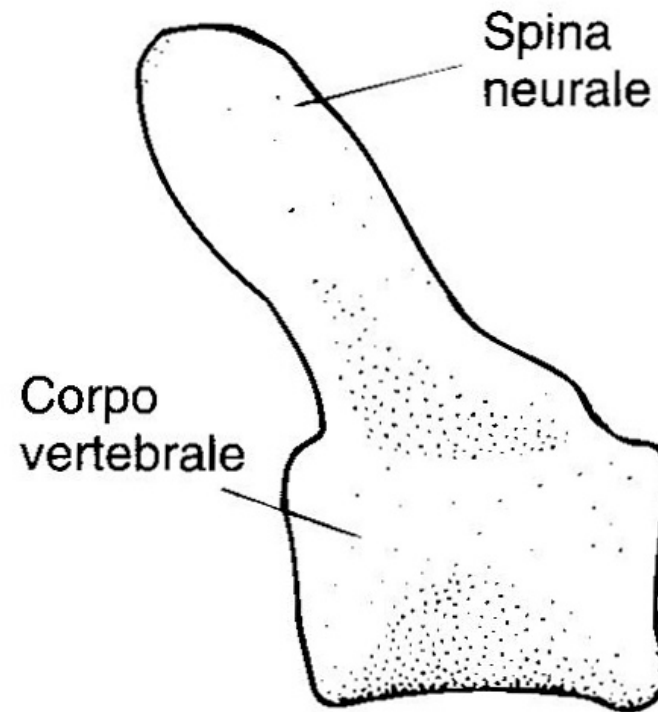


RANA



(a) Vertebra
rachitoma

(vertebra aspidospondila)



(b) Vertebra
lepospondila

(vertebra olospondila)

