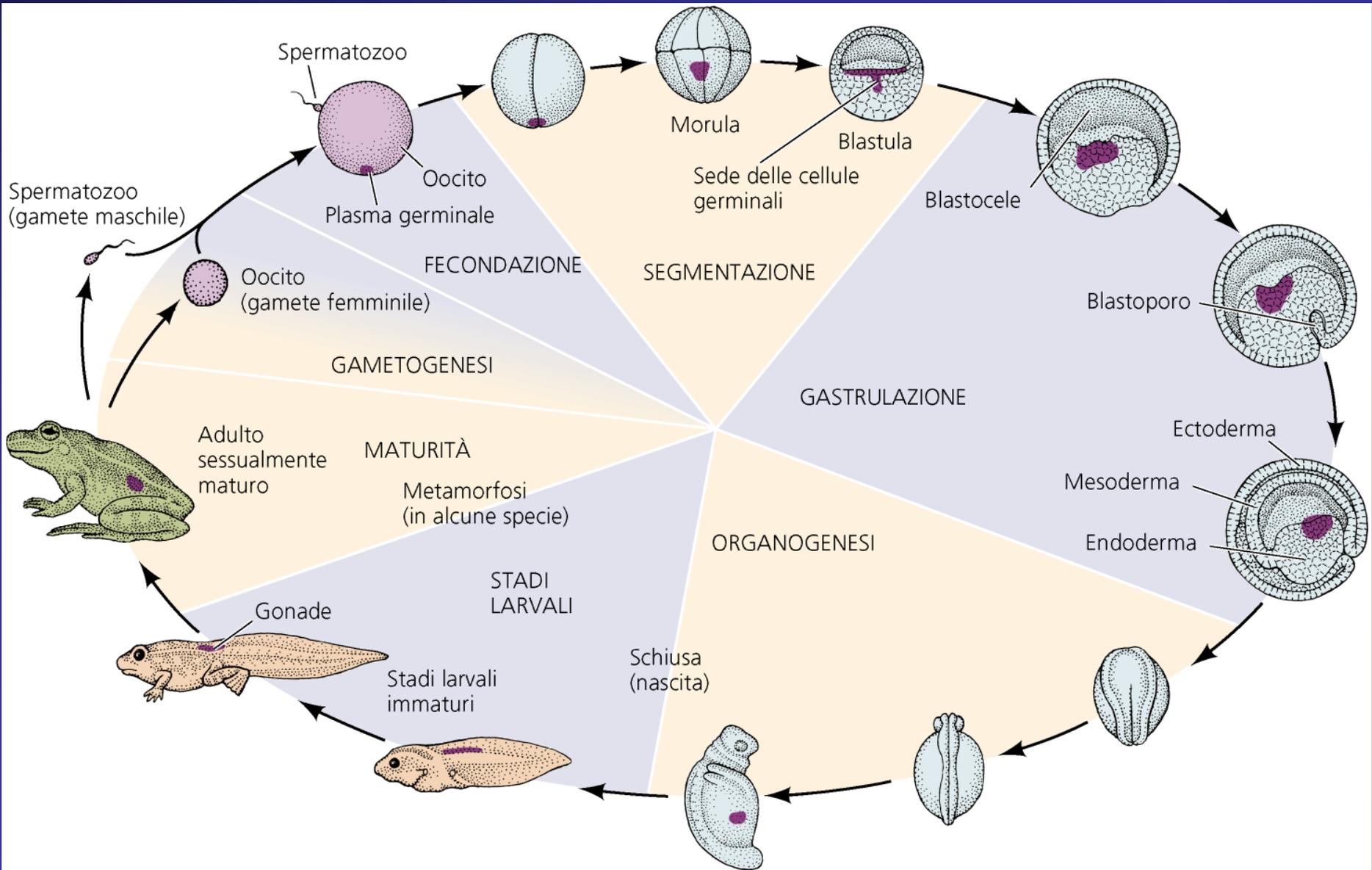
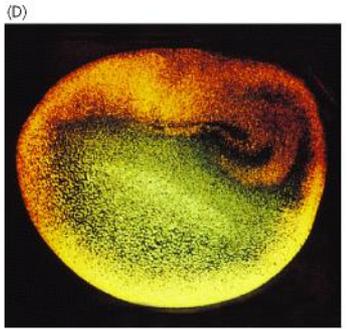
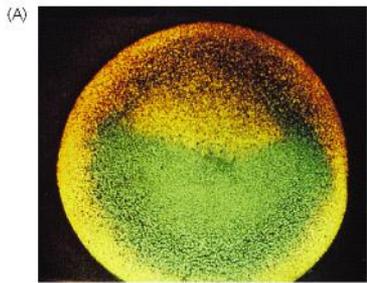
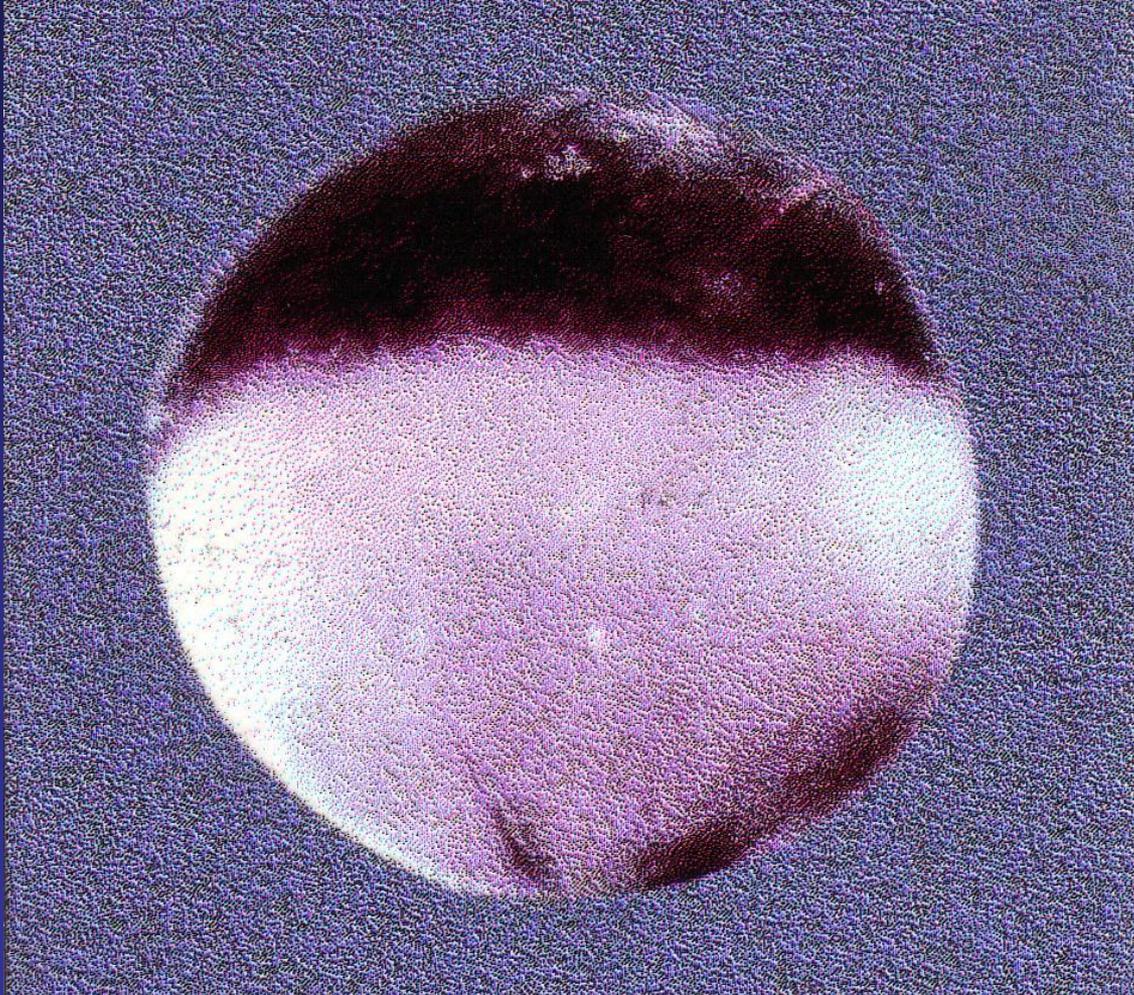


Gli Anfibi





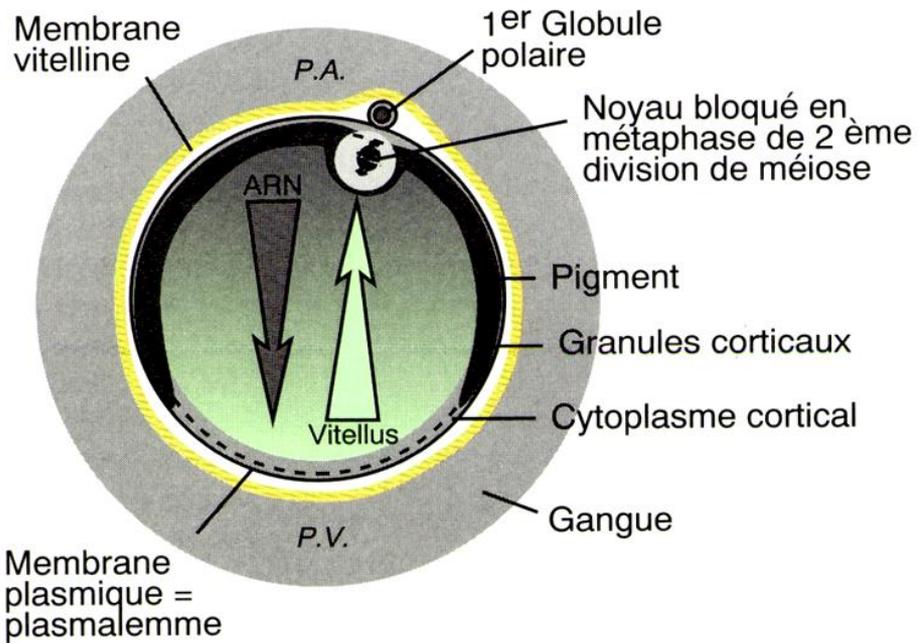


Uovo mesolecitico

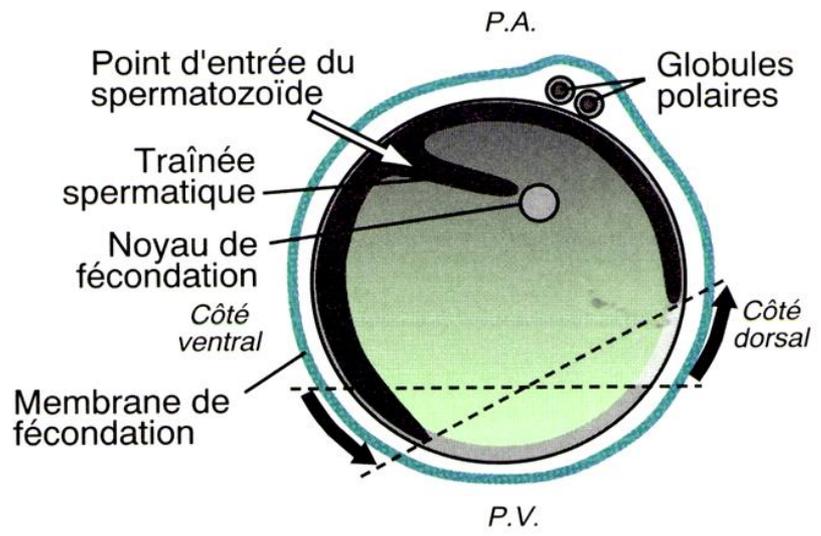
Sviluppo indiretto

FECONDAZIONE

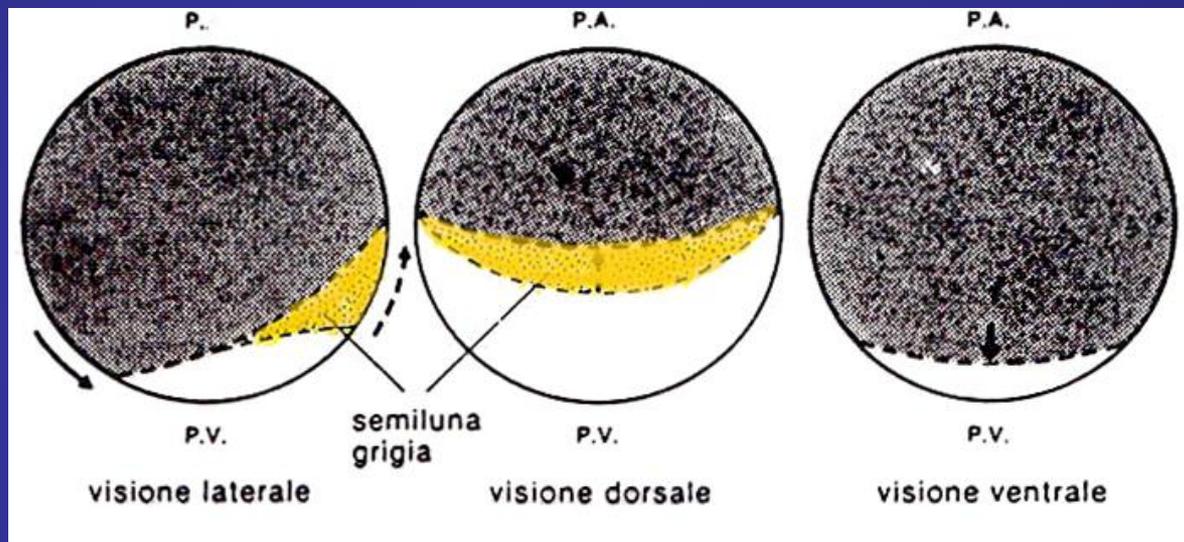
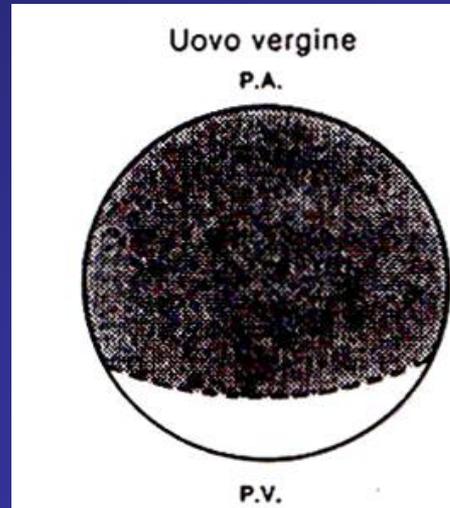
a) Œuf mûr, non fécondé



b) Rotation de symétrisation
(l'œuf est représenté sans sa gangue)

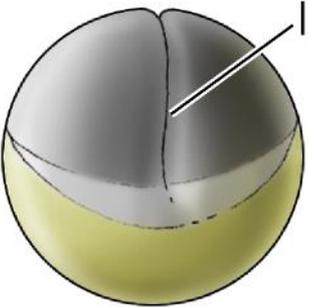


ROTAZIONE CORTICALE

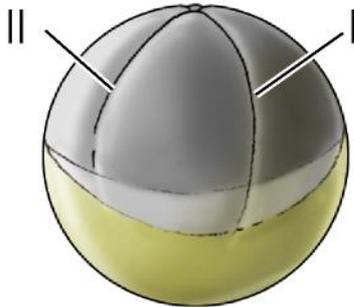


Segmentazione oloblastica diseguale bilaterale

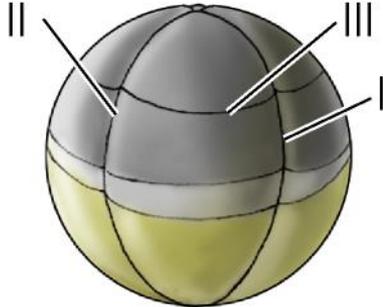
(A)



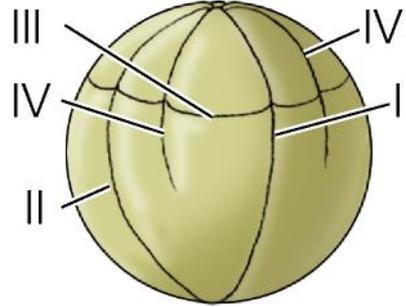
(B)



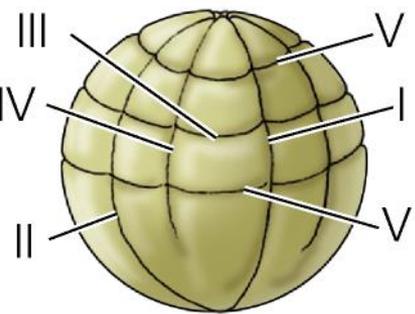
(C)



(D)



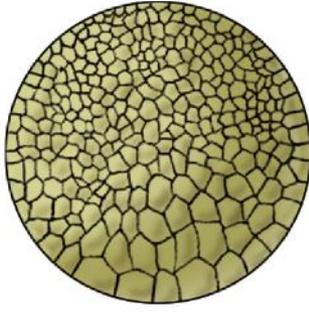
(E)



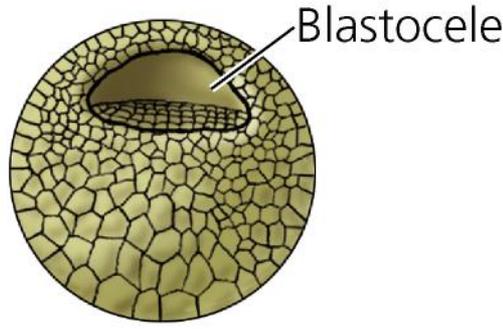
(F)



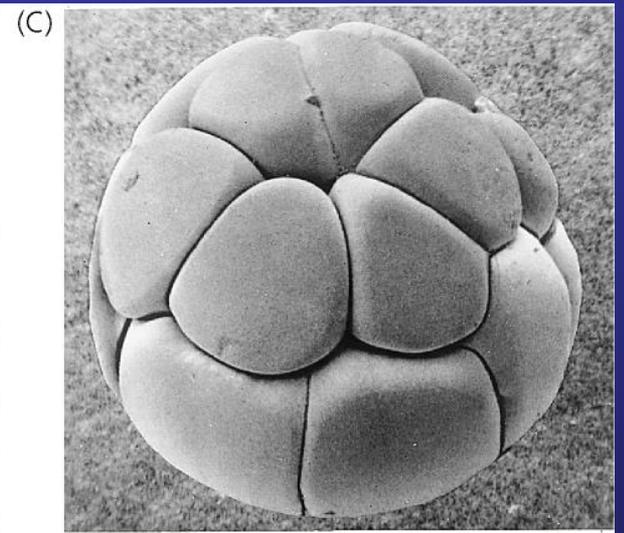
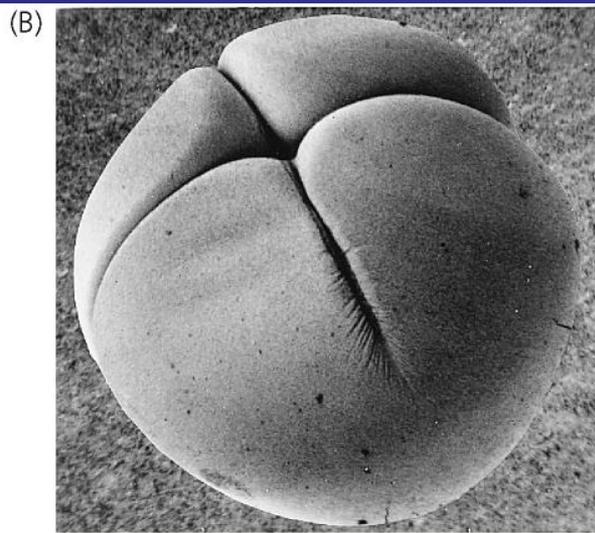
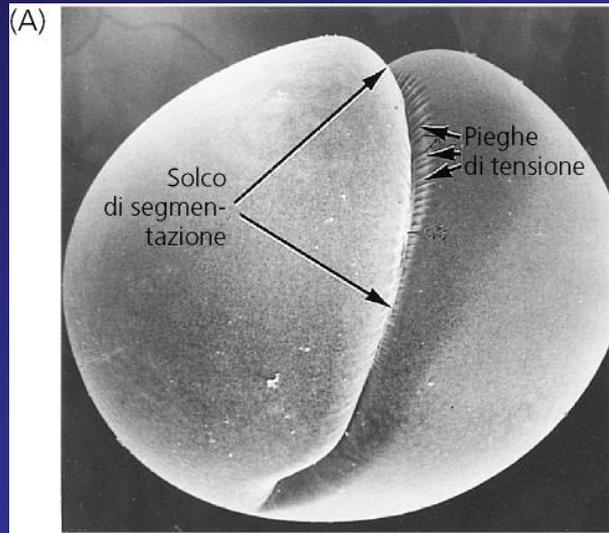
(G)



(H)



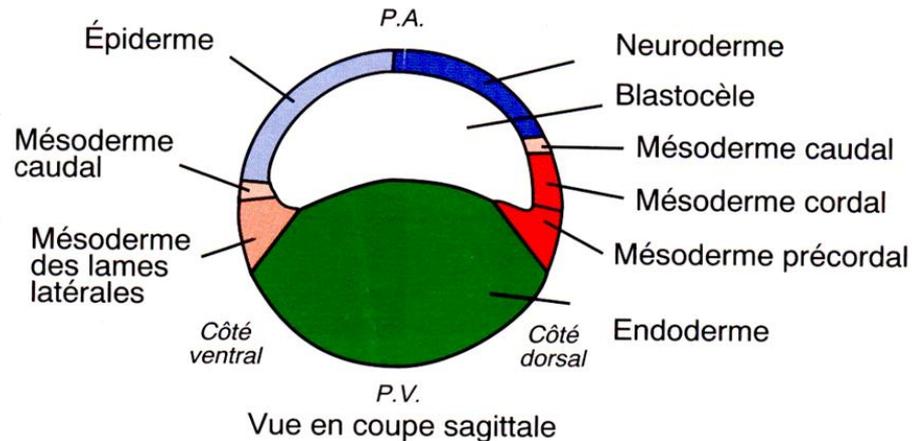
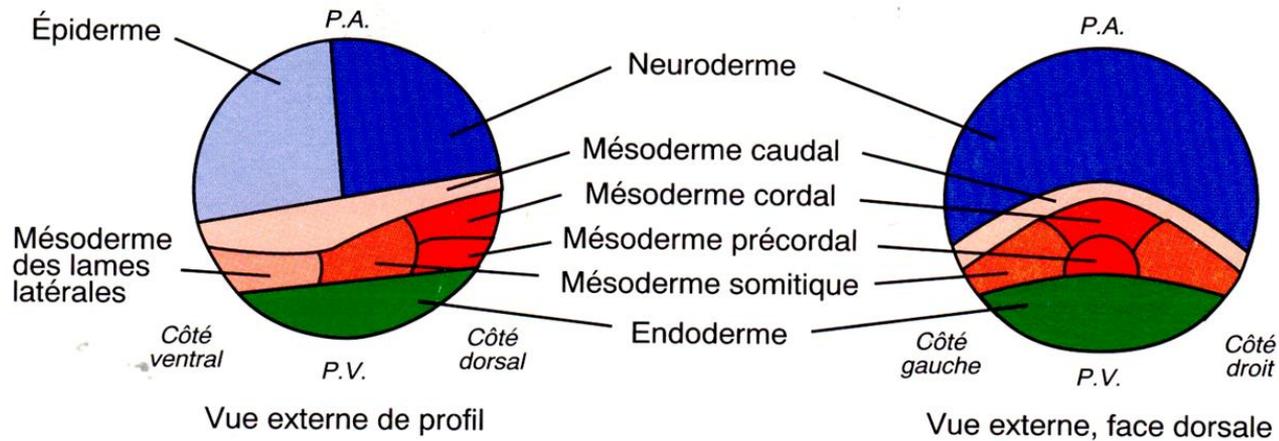
MORULA



Territori presuntivi negli *Urodeli*

Ordine di Anfibi comprendente circa 560 specie suddivise in 9 famiglie di salamandre, tritoni, protei.

b) Urodèles

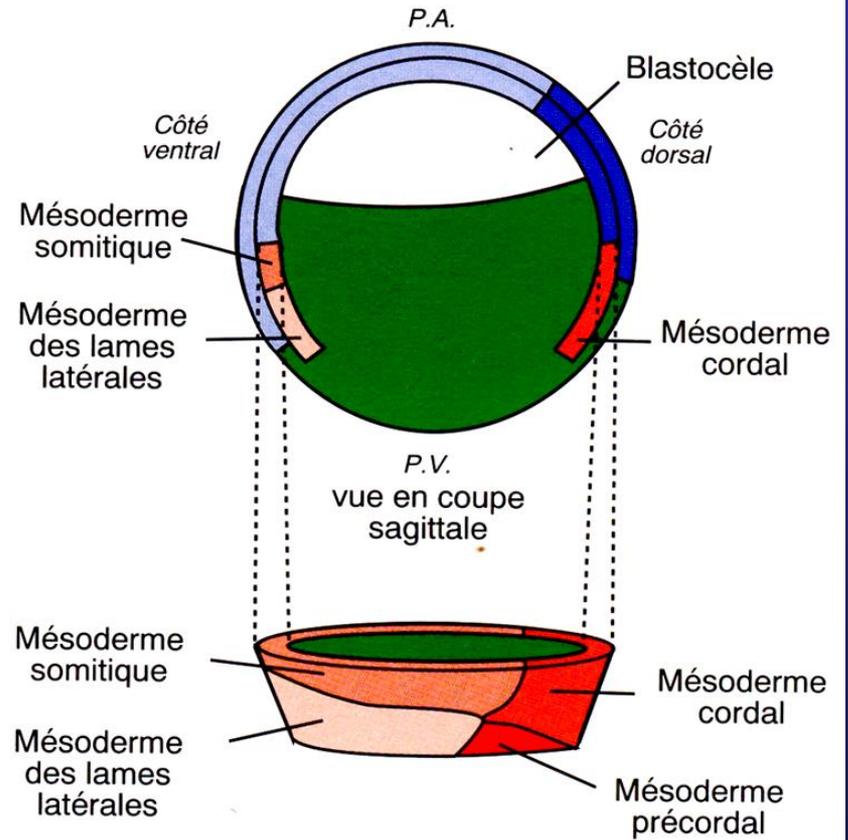
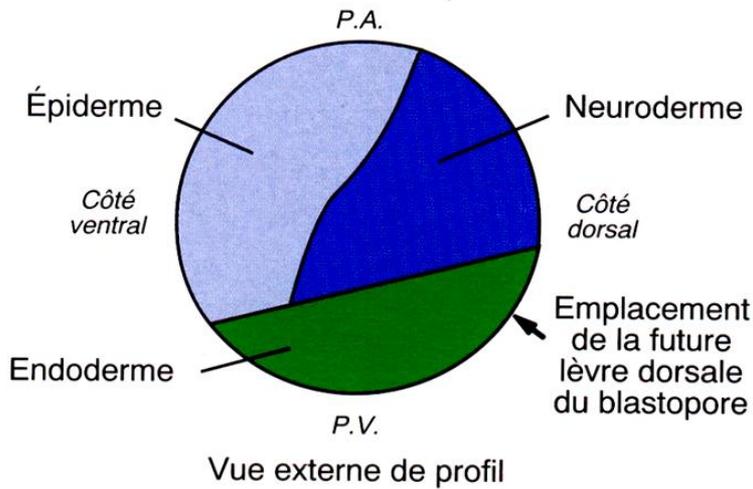




Territori presuntivi Anuri

Ordine di anfibis cui appartengono oltre 7450 specie, comunemente definite rane, rospi e raganelle

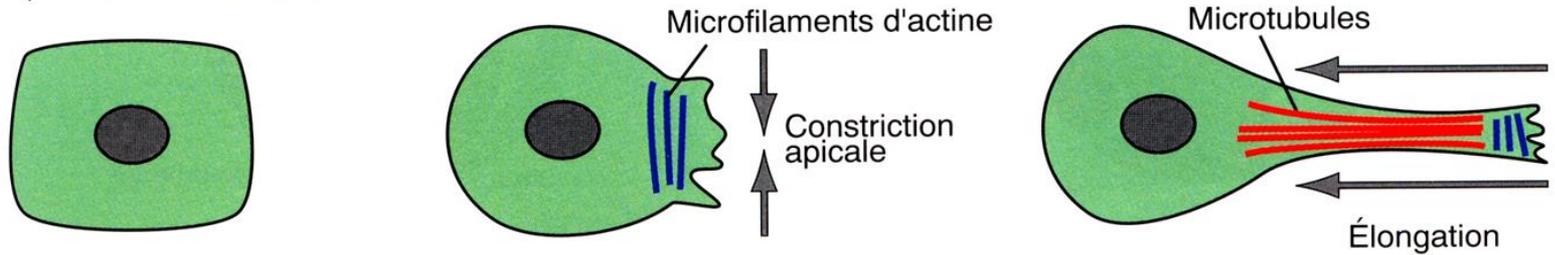
a) Xénope



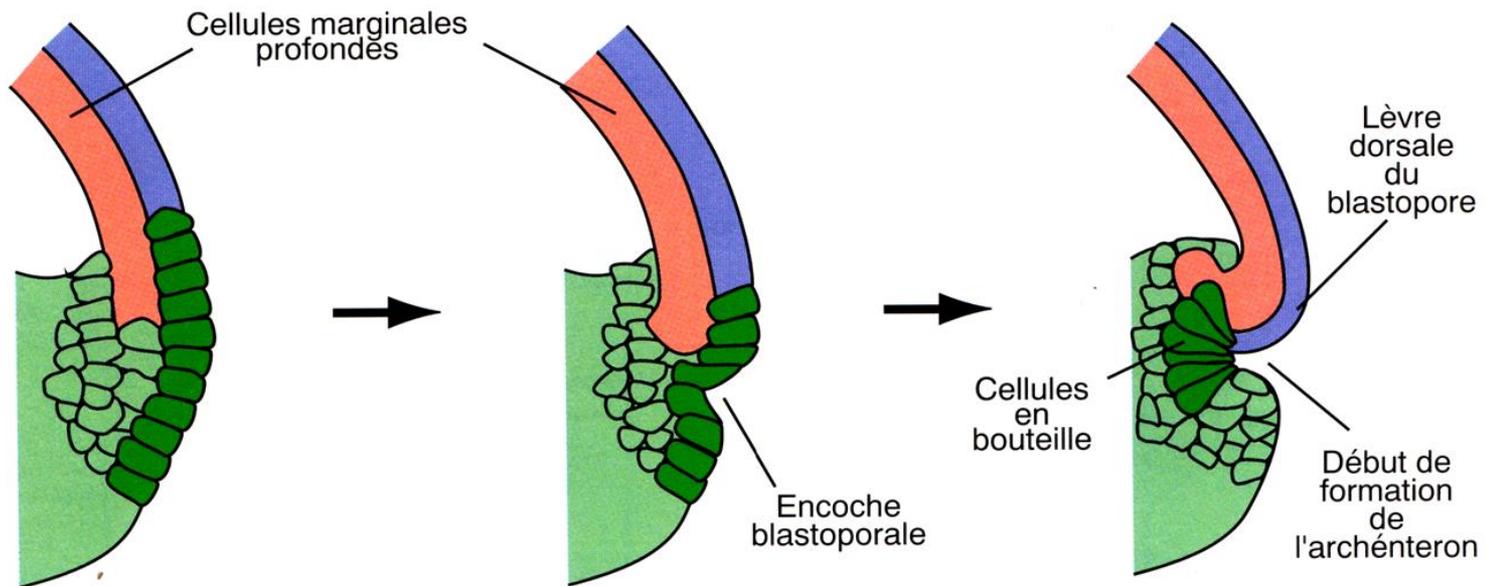
Projection montrant la répartition du mésoderme

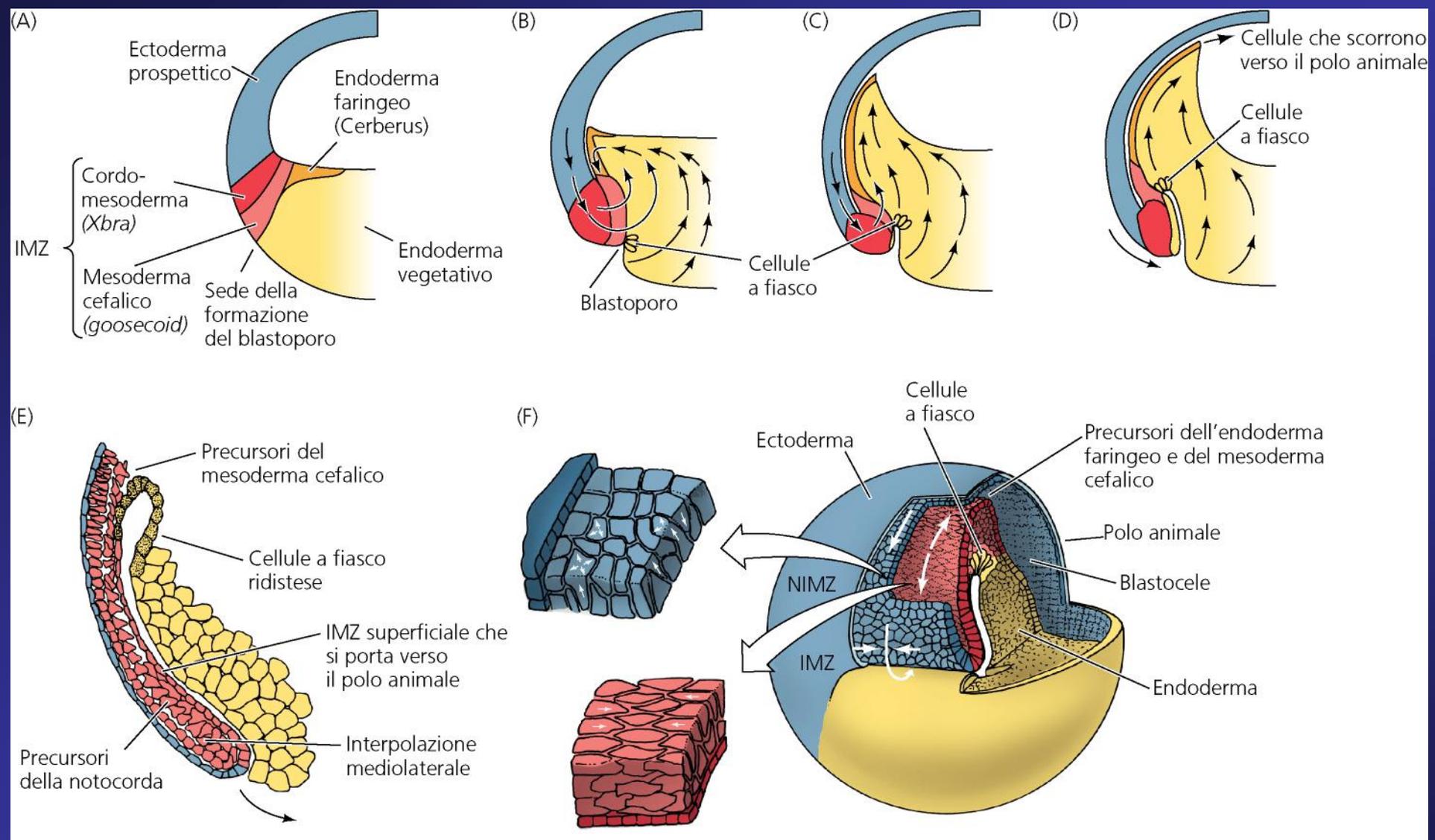
Gastrulation

b) Formation des cellules en bouteille



c) Schémas de la formation de l'archentéron

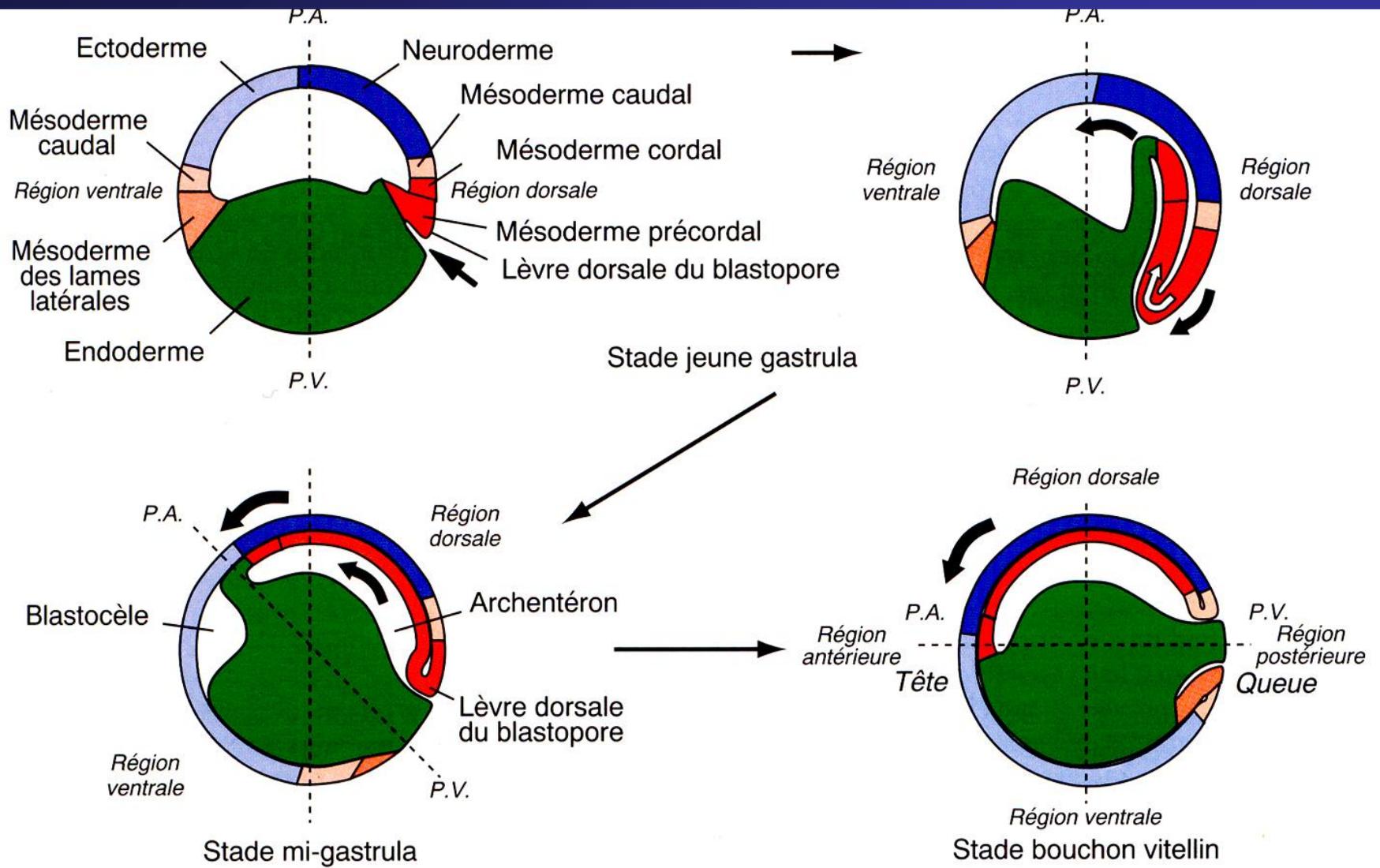




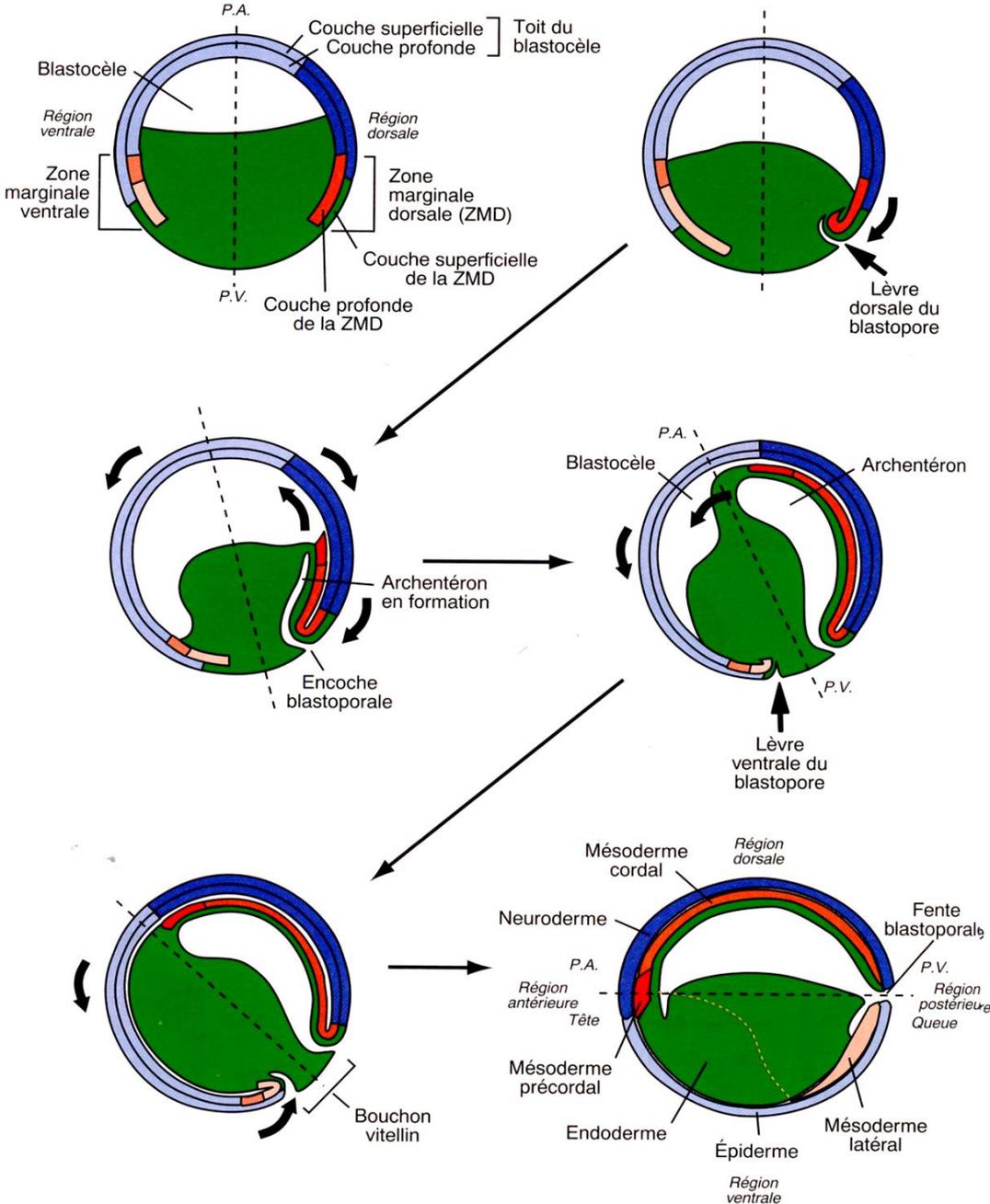
Invaginazione

Involuzione

Epibolia

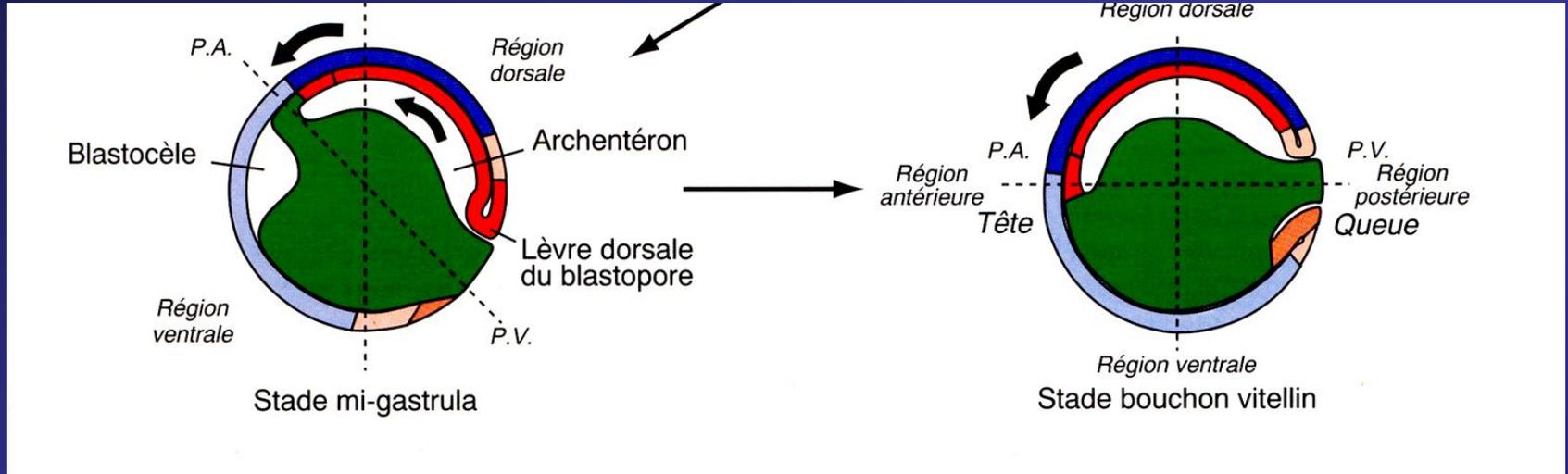


Urodeli



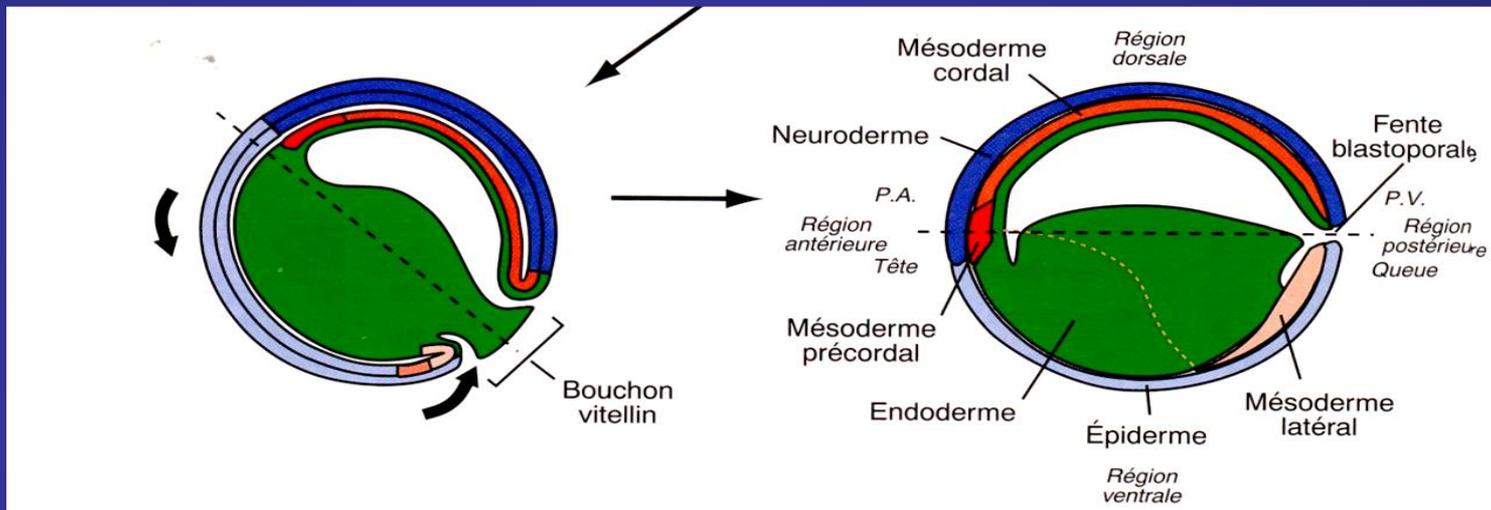
Urodeli

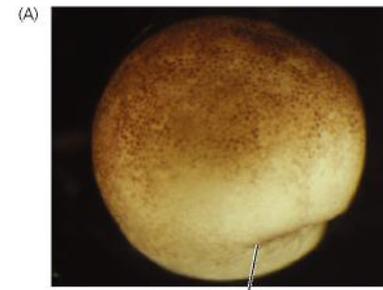
Gastrula di-dermica



Anuri

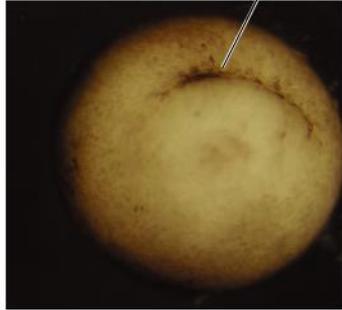
Gastrula tri-dermica



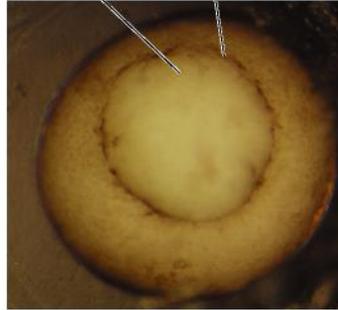


Labbro dorsale del blastoporo

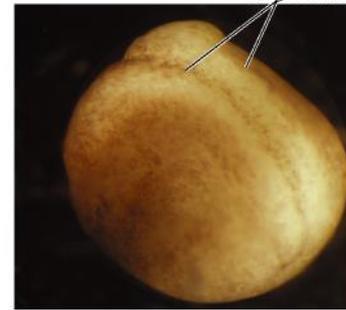
(B) Labbro dorsale del blastoporo



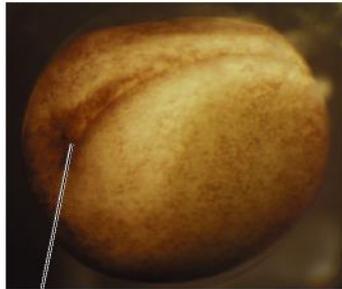
(C) Tappo vitellino Blastoporo



(D) Labbro dorsale del blastoporo Pieghe neurali

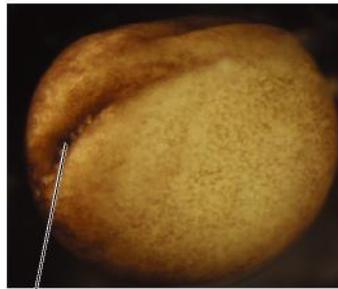


(E)



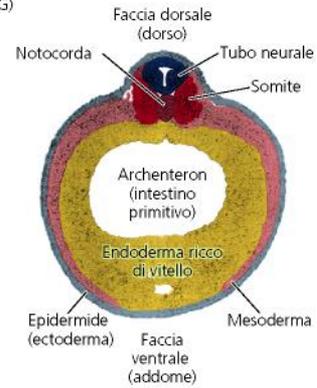
Doccia neurale

(F)

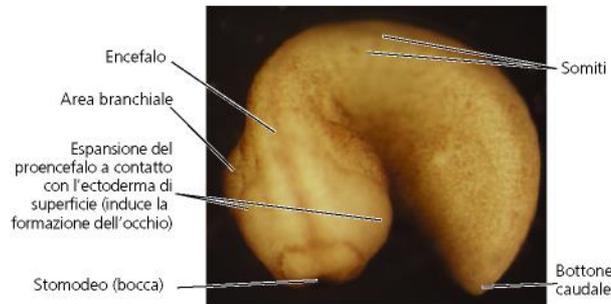


Tubo neurale aperto

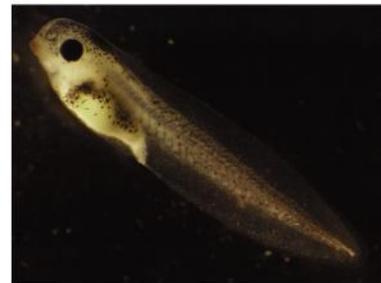
(G)

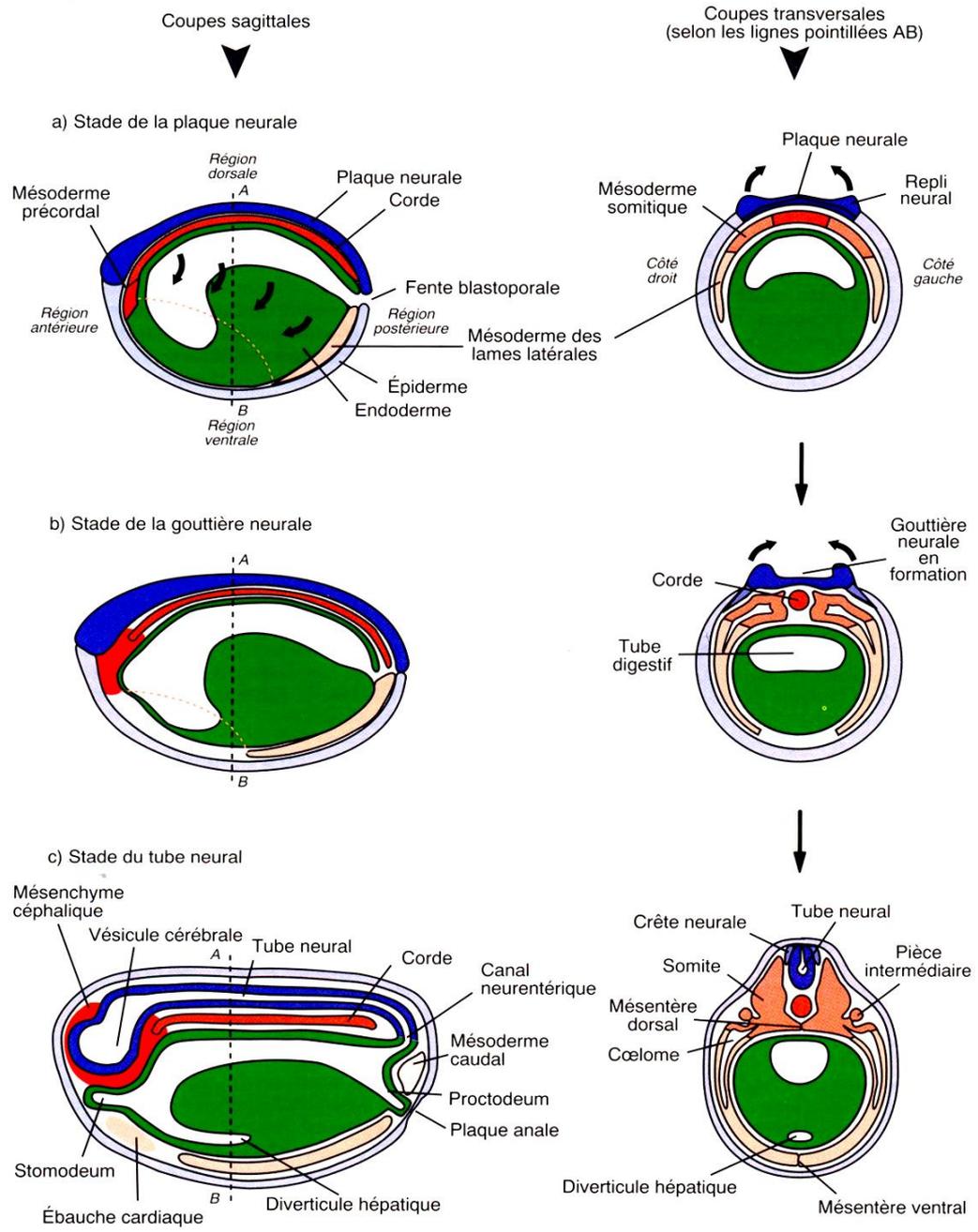


(H)



(I)



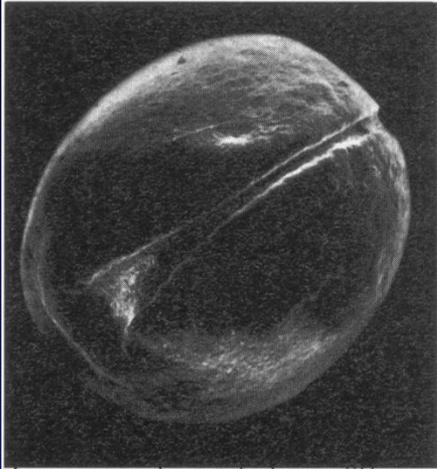


Neurulation

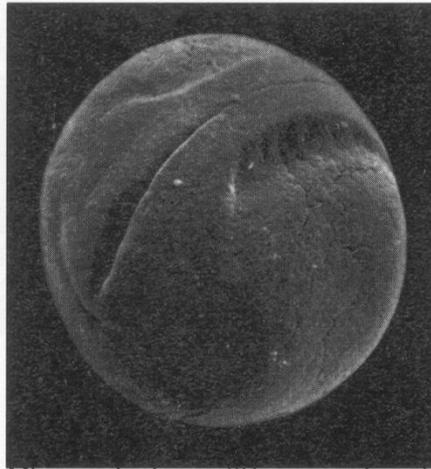
Piastra neurale
Pliche neurali
Creste neurali

Mesoderma
M. Somitico
M. Intermedio
M. Laterale

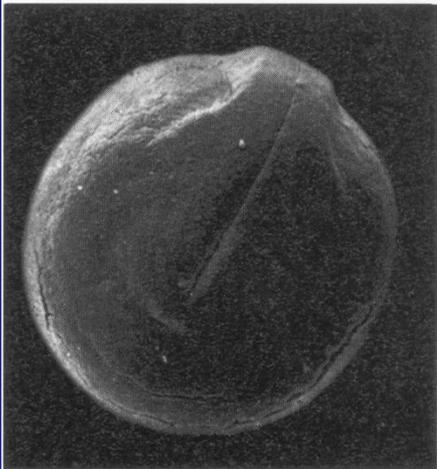
b) La neurulation, microphotographies d'embryons de xénope (les embryons sont dégangés et sans membrane de fécondation, x 50)



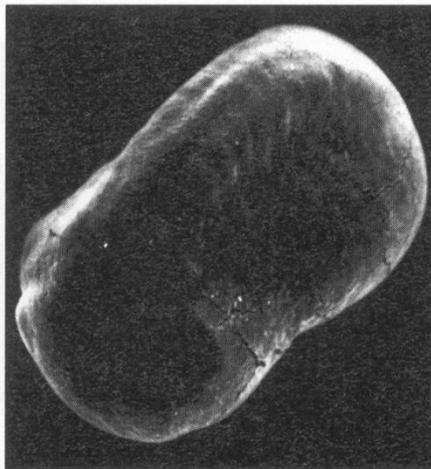
Jeune neurula au stade gouttière neurale



Mi-neurula, la gouttière neurale est fermée dans la région troncale

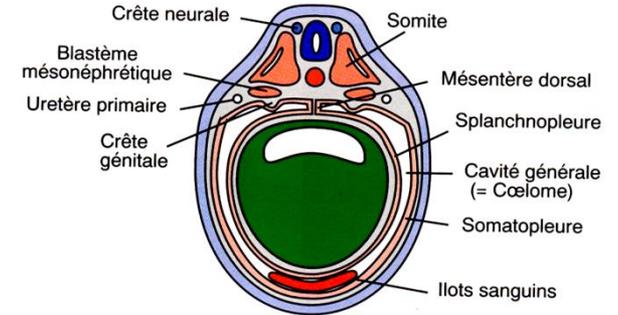


Neurula âgée



Jeune bourgeon caudal

b) Coupe transversale selon AB



Somite

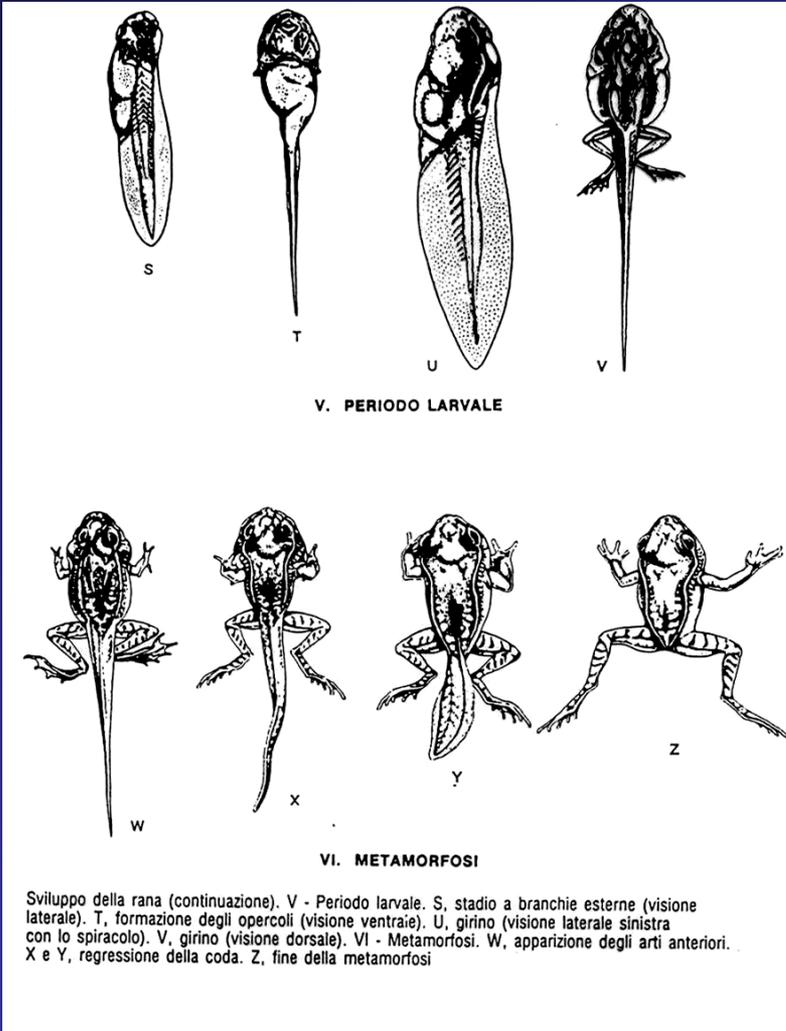
1. Cartilagine vertebrale e costale
2. Muscolo striato
3. Derma

Metamorfosi

Pre-metamorfosi: accrescimento girino, Presenza di branchie, progressivo sviluppo arti posteriori.

Metamorfosi: arti anteriori, regressione pinna caudale e coda, modificazione tubo digerente, sviluppo polmoni.

**Controllo ormonale:
ipofisi- ormone tireotropo
Tiroide- ormone tiroxina**



- https://youtu.be/_NI68Nc_Dlc
- <https://youtu.be/dXpAbezdoHo>