

Aparato locomotor

Esqueleto apendicular: miembro torácico



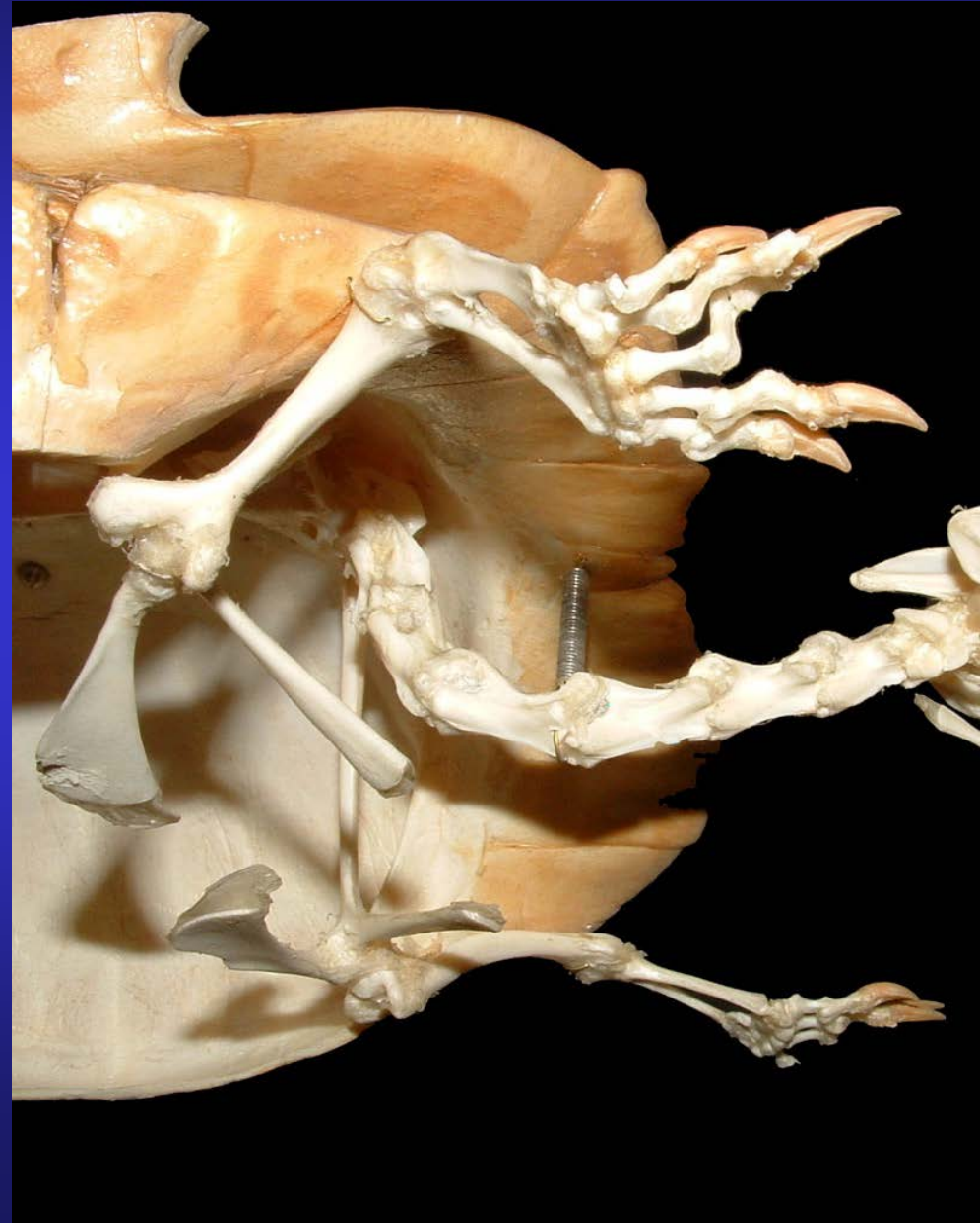
Húmero

Cúbito y radio

Carpo

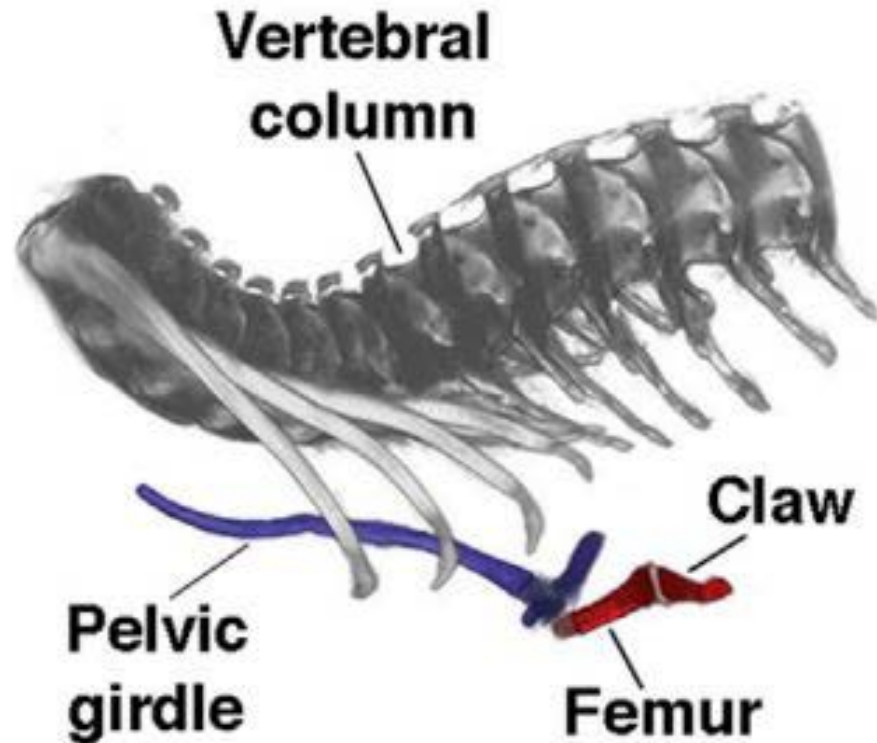
Metacarpo

Falanges



Esqueleto apendicular: miembro pelviano → cintura pélvica

Python hindlimb OPT



Python hindlimb development

CellPress

Current Biology
Report

Loss and Re-emergence of Legs in Snakes by Modular Evolution of *Sonic hedgehog* and *HOXD* Enhancers

Francisca Leal^{1,2} and Martin J. Cohn^{1,2,3,4,*}

¹Howard Hughes Medical Institute

²Department of Biology

³Department of Molecular Genetics and Microbiology

⁴UF Genetics Institute, University of Florida, P.O. Box 103810, University of Florida, Gainesville, FL 32610, USA

*Lead Contact

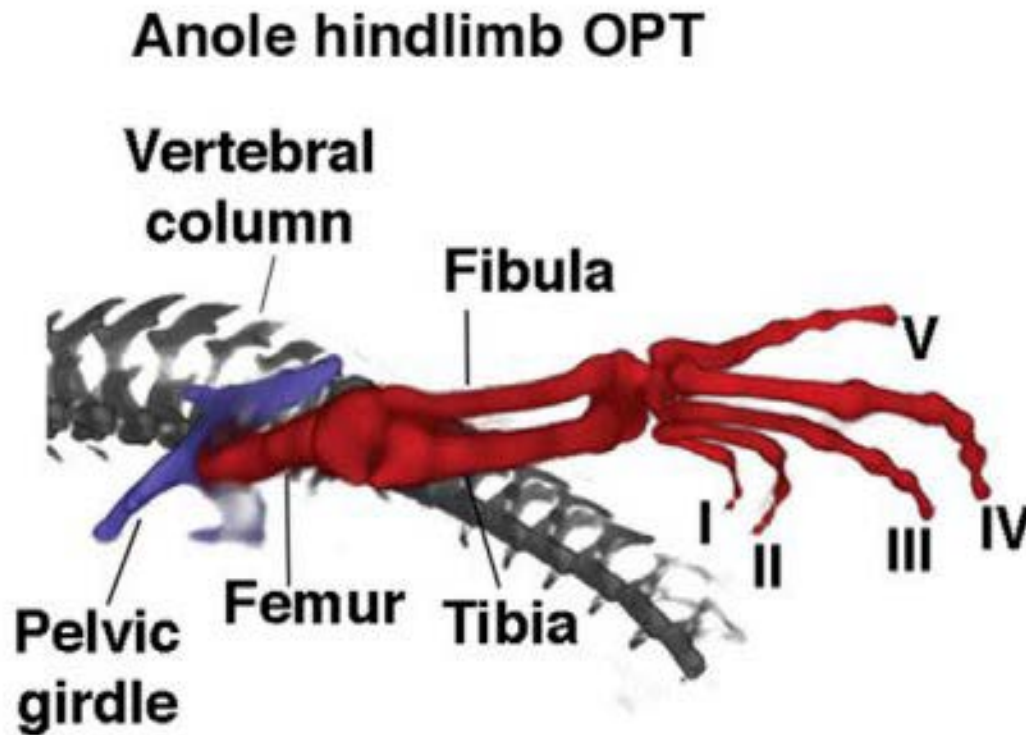
*Correspondence: mjcohn@ufl.edu

<http://dx.doi.org/10.1016/j.cub.2016.09.020>

Esqueleto apendicular: miembro pelviano → cintura pélvica



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Aparato locomotor

Esqueleto apendicular: miembro pelviano



Fémur

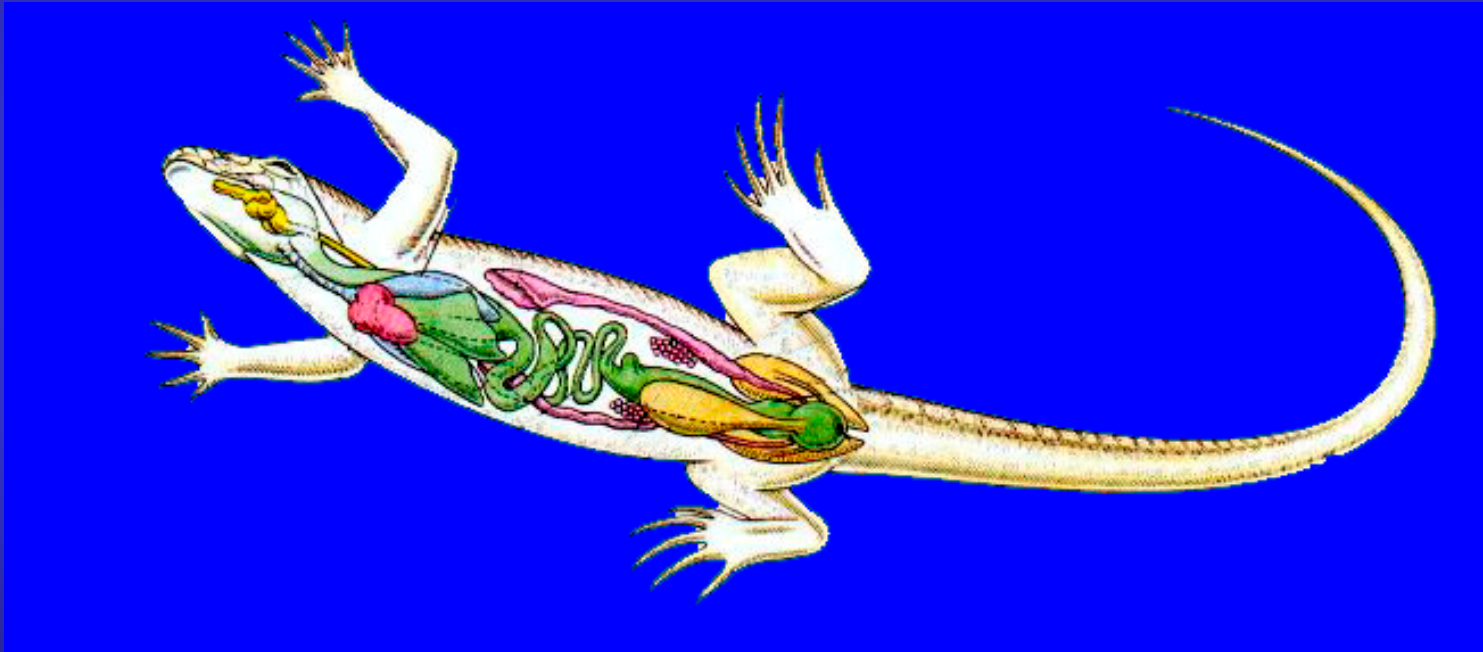
Tibia y peroné

Tarso

Metatarso

Falanges

Aparato Digestivo

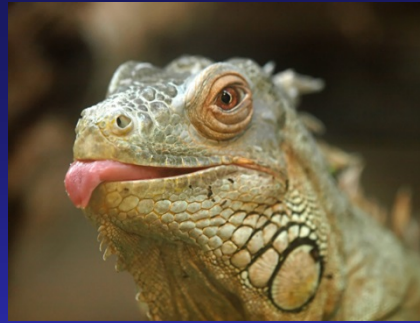


Cavidad oral

Lengua:

* móvil

lagartos
Serpientes
tortugas



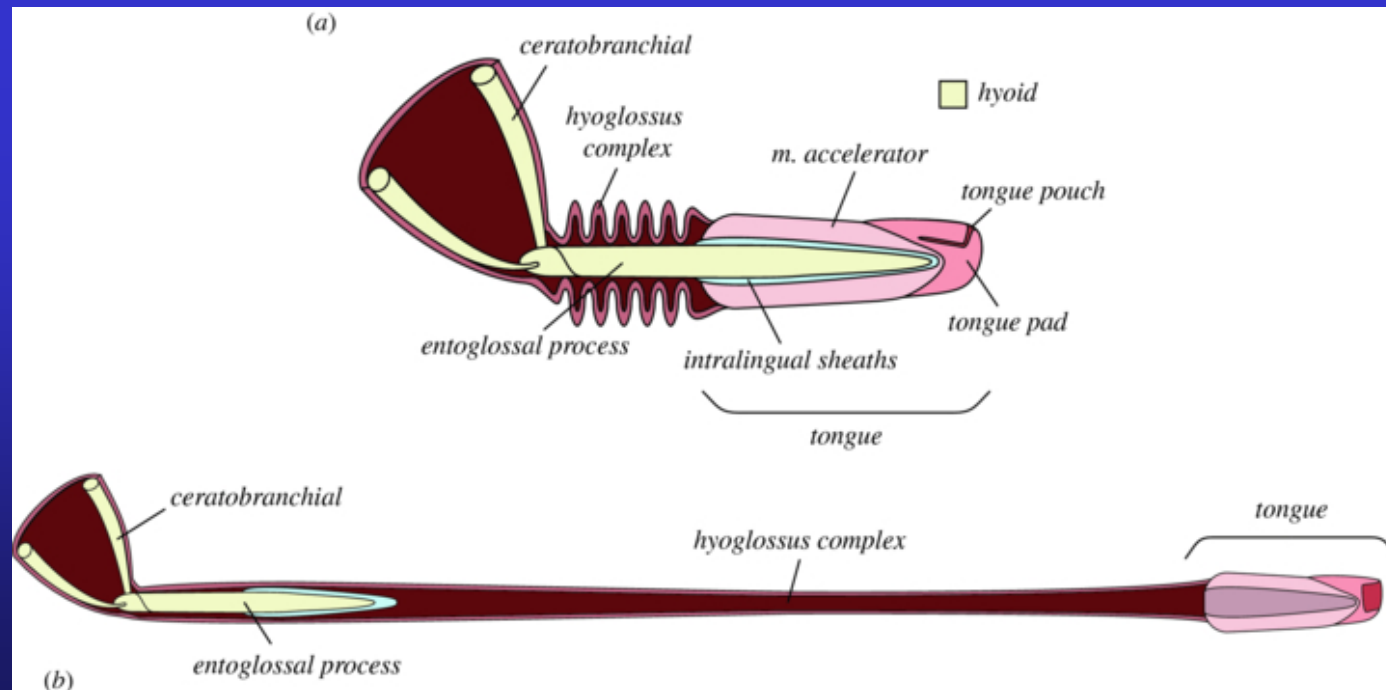
* inmóvil

Tortugas (*Trachemys spp*)
cocodrilos

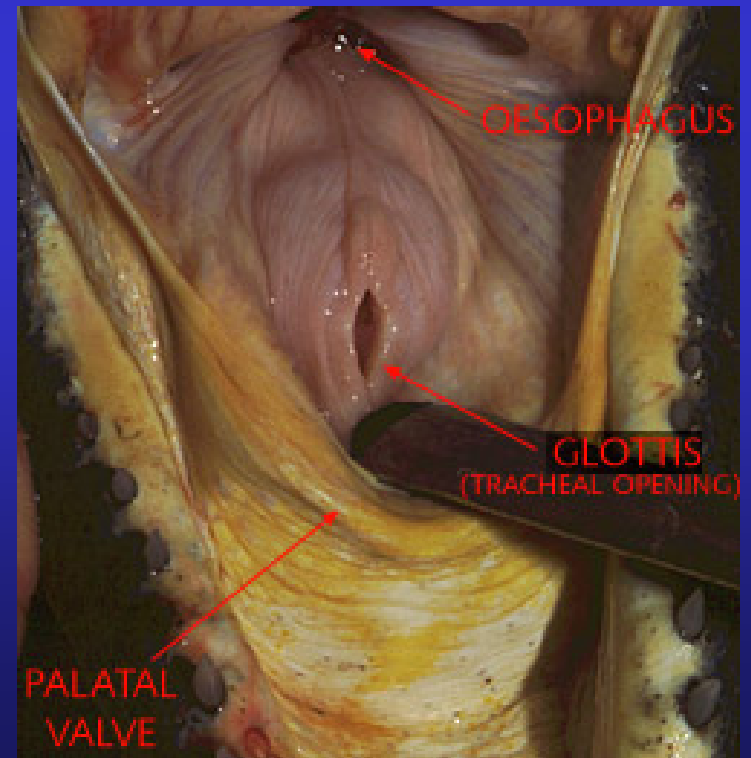
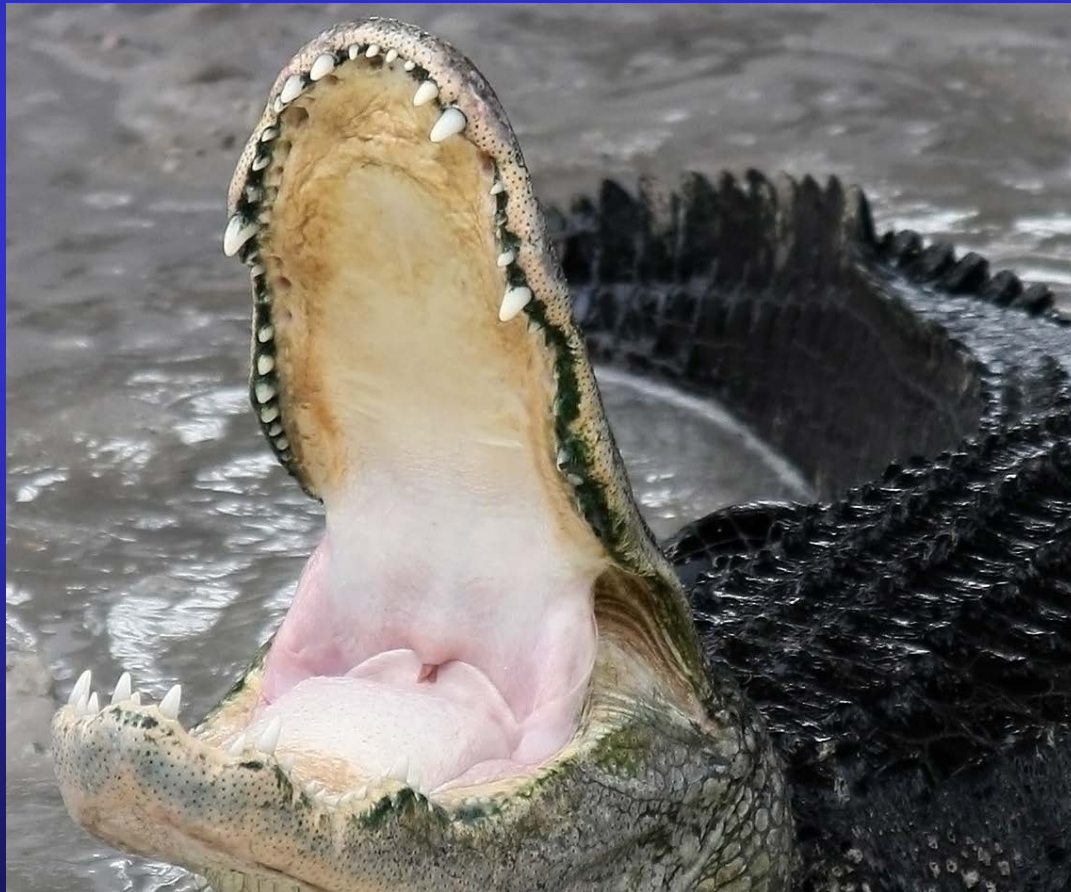


Cavidad oral

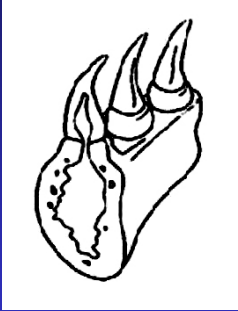
Lengua móvil



Cavidad oral



Dentición



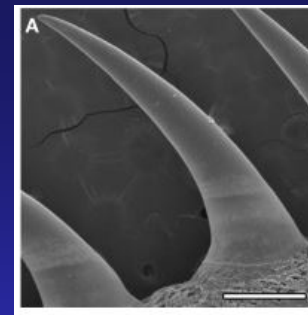
Acrodontos (Camaleones y serpientes)



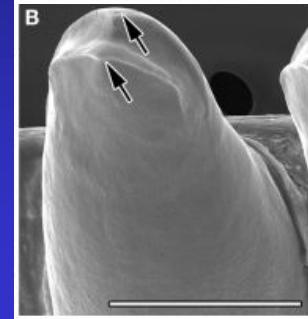
Pleurodontos (Lagartos)



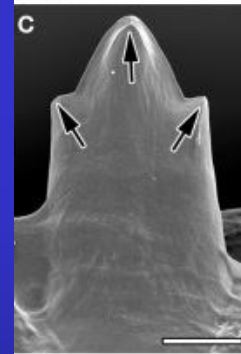
Tecodontos (Cocodrilos)



Pitón
Python molurus



Geko
Paroedura picta



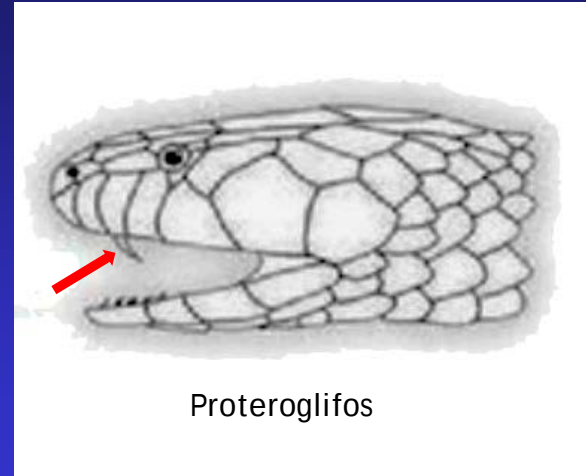
Lagarto anole
Anolis allisoni



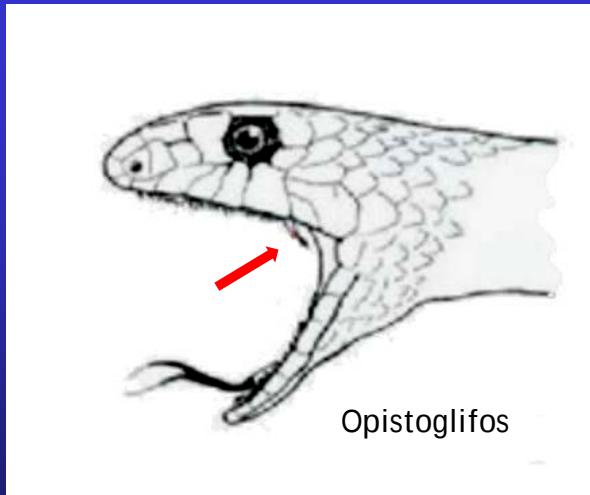
Varano del nilo
Varanus niloticus

Dentición (Serpentes)

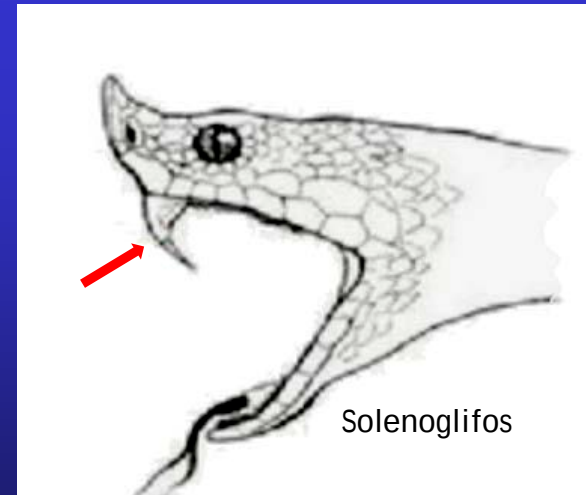
Aglifos



Proteroglifos

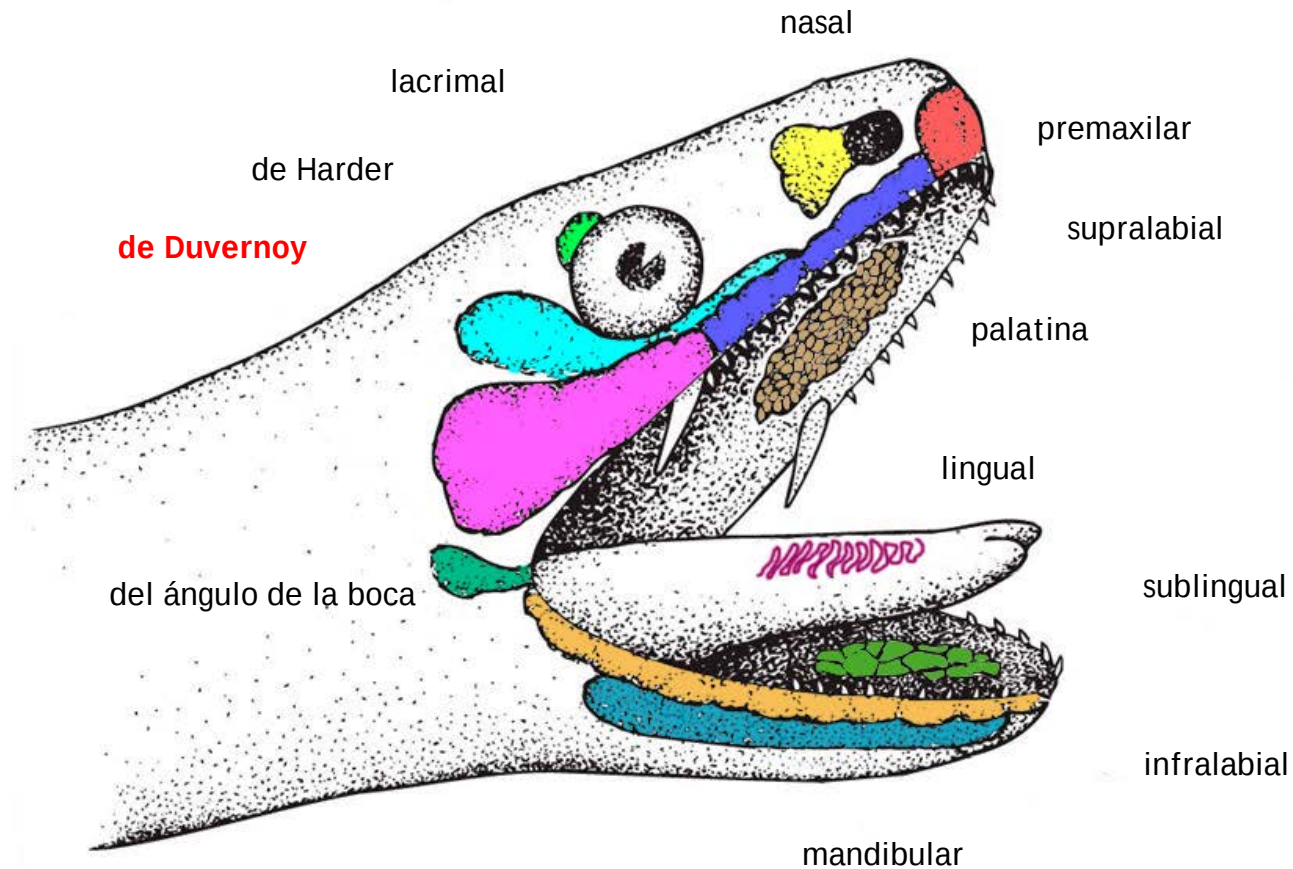


Opistoglifos



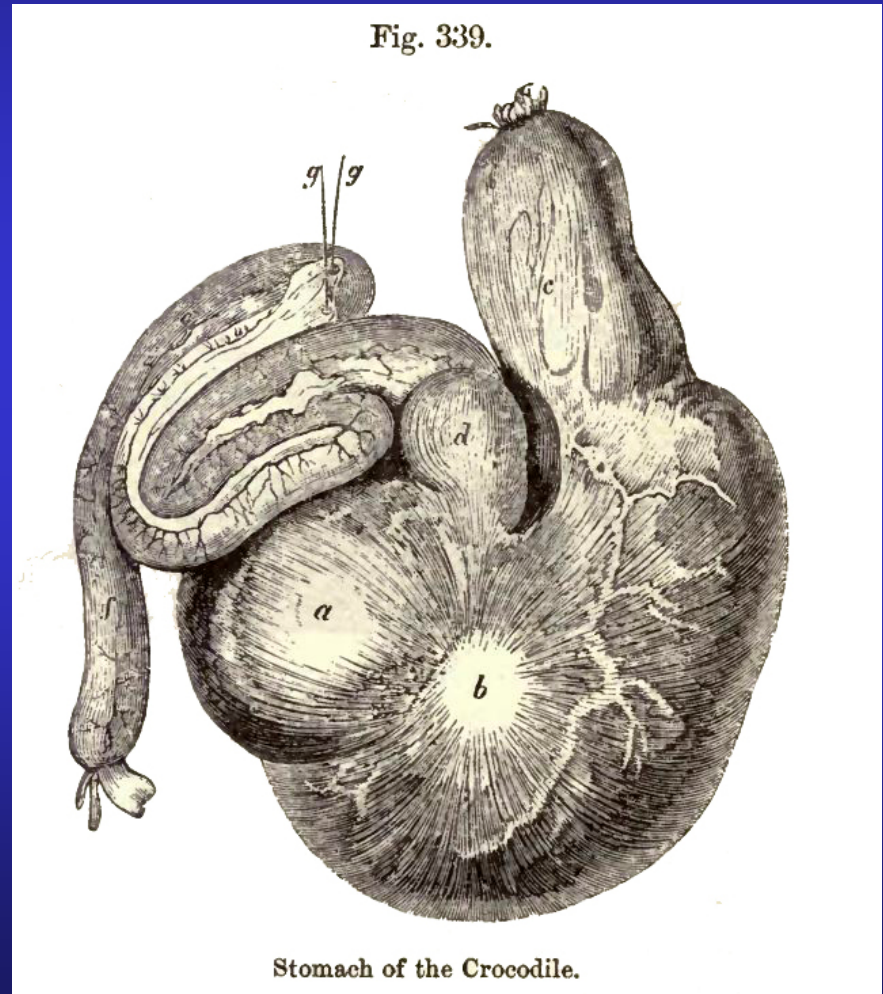
Solenoglifos

Glándulas salivales



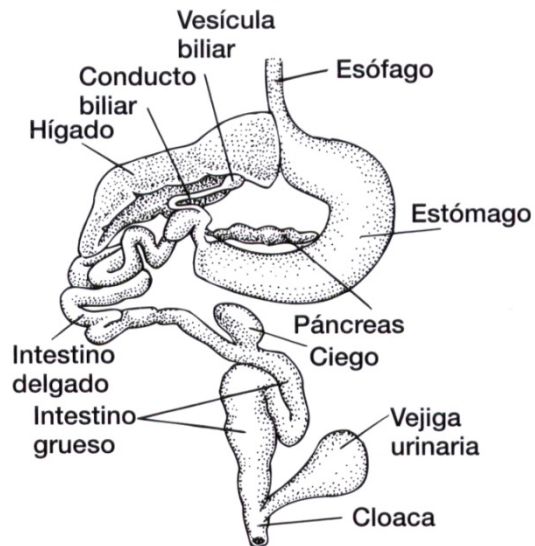
Estómago

- Localización:
 - Lado izquierdo – vinculado al pulmón ipsilateral
- Morfología:
 - Ofidios
 - Lacértidos
 - Quelonios
 - Crocodilianos

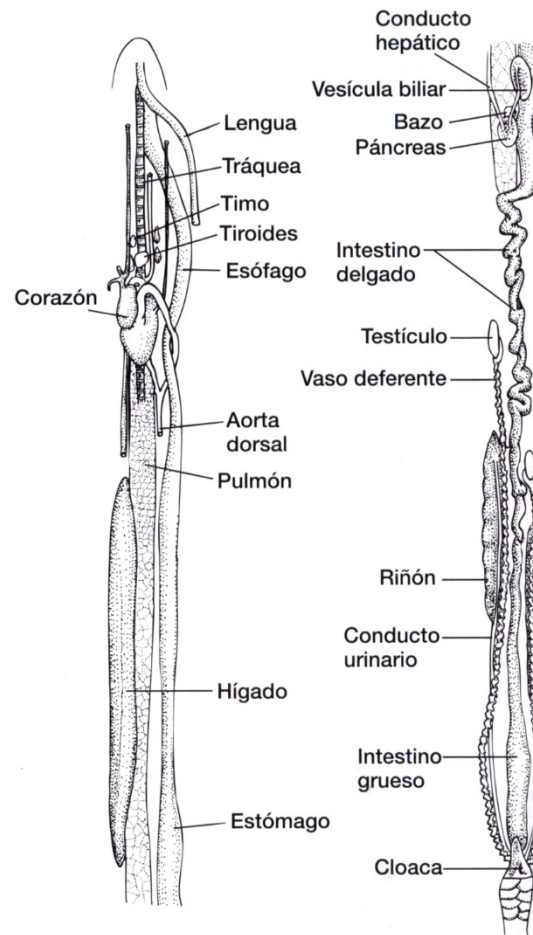




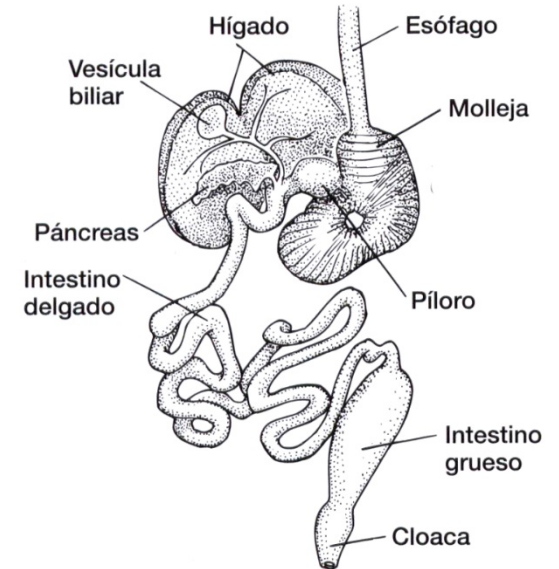
Intestino



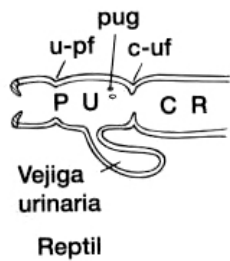
Lacértido (*Iguana*)



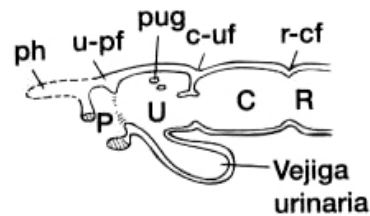
Serpiente (*Matrix*)



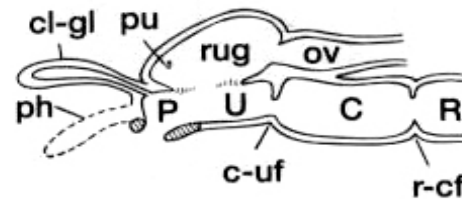
Caimán (*Alligator*)



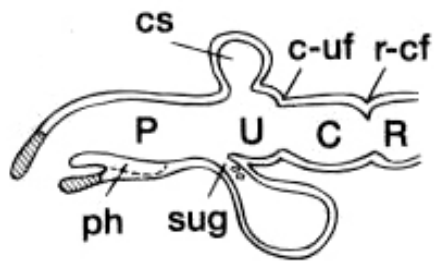
R: recto
C: coprodeo
U: urodeo
P: proctodeo



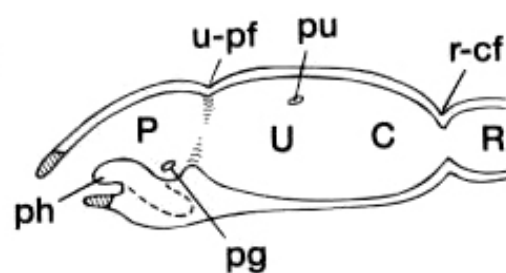
Lagarto



Serpiente



Tortuga

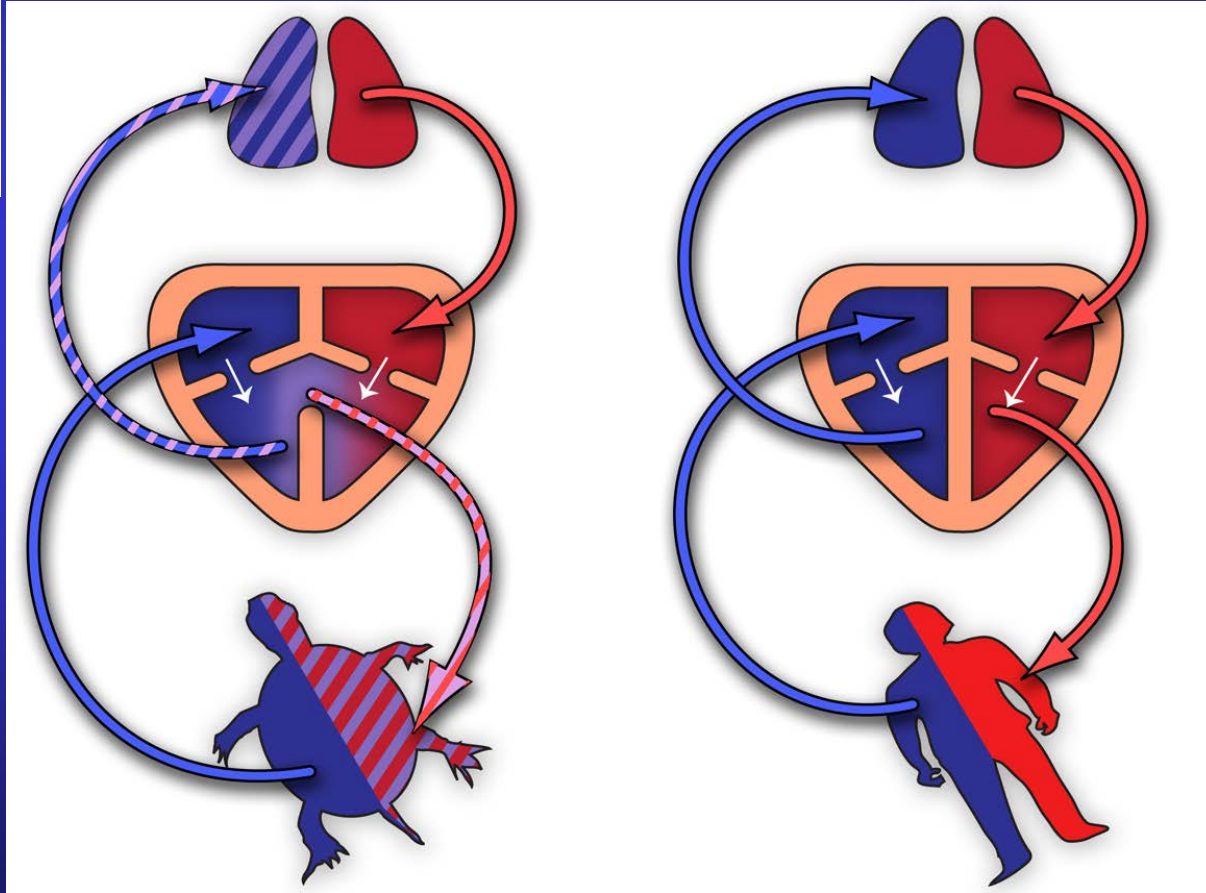


Cocodrilo

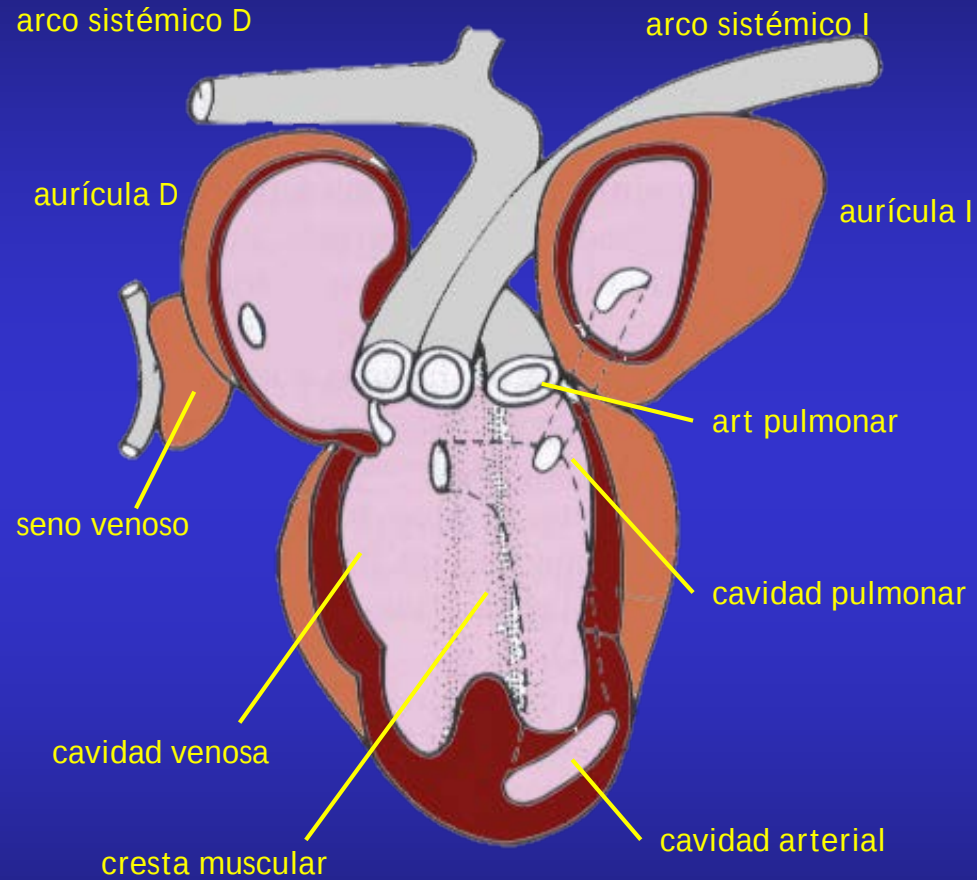
c-uf: pliegue coprourodeal
cl-gl: glándula cloacal
cs: saco cloacal
pg: poro genital
ov: oviducto
ph: phalus/pene
r-cf: pliegue rectocoprodeal
pu: poro urinario
pug: poros urogenitales
u-pf: pliegue uroproctodeal
sug: seno urogenital
rug: reservorio urogenital

Aparato Circulatorio

Sistema circulatorio sanguíneo

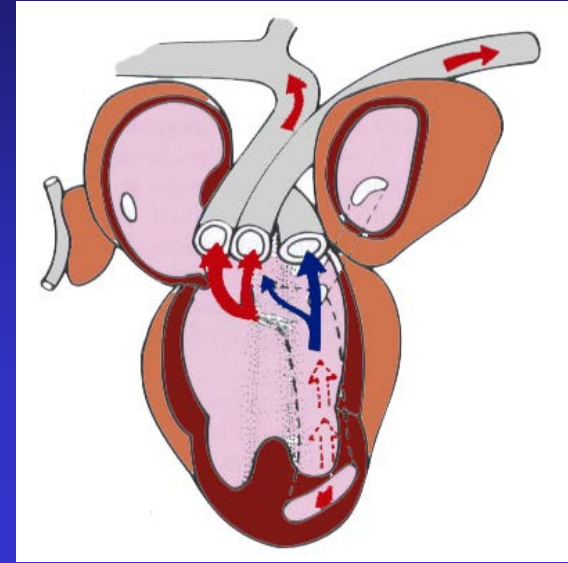
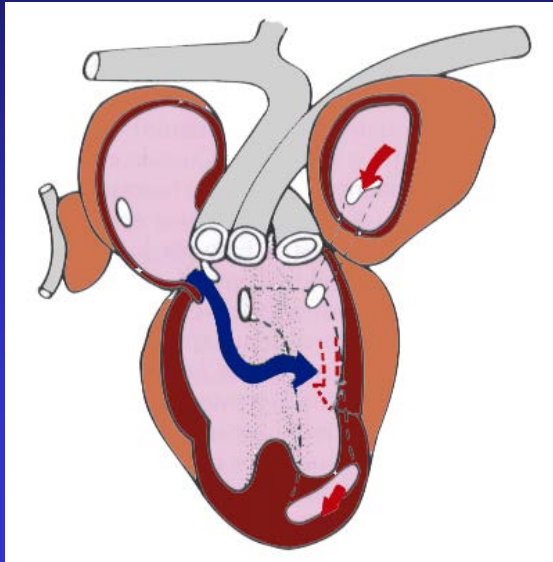
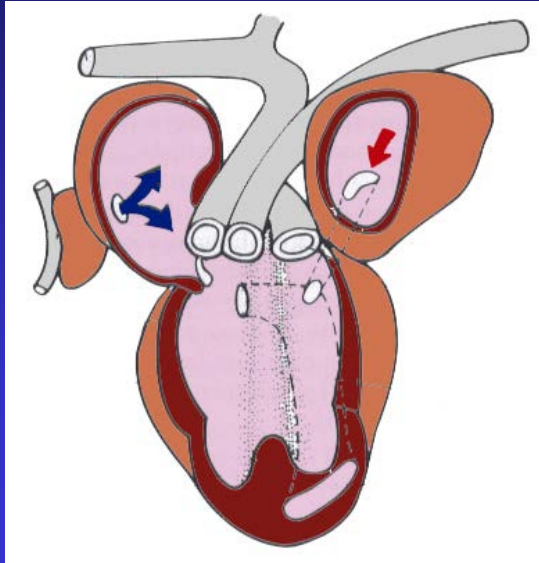


Corazón quelonios ofidios y lacértidos

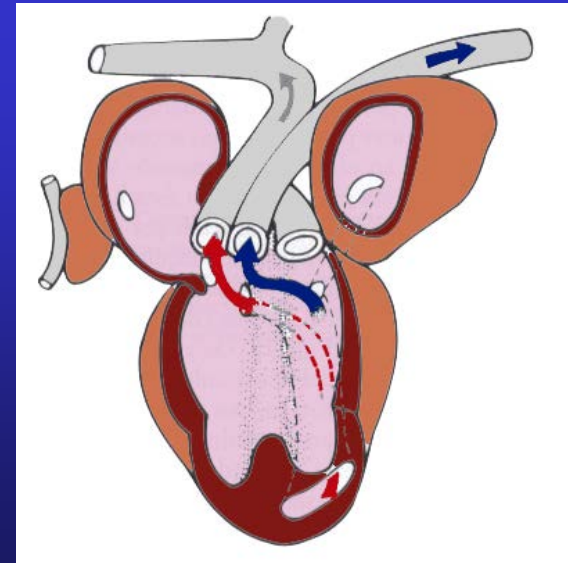
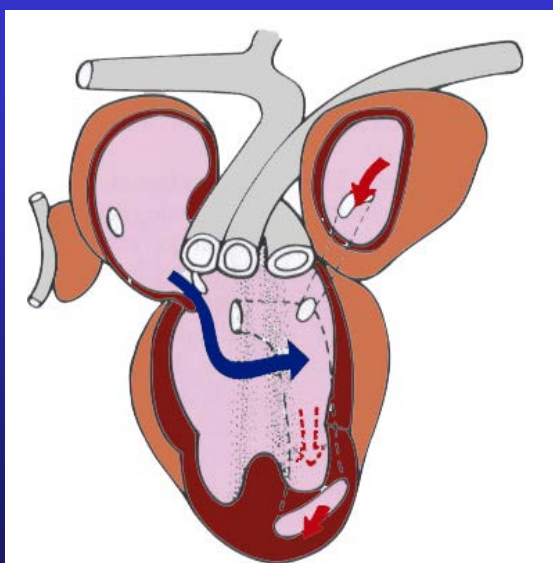
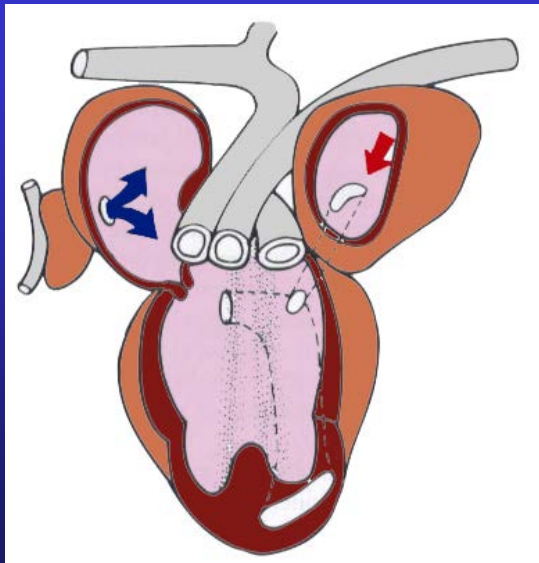


Corazón quelonios ofidios y lacértidos

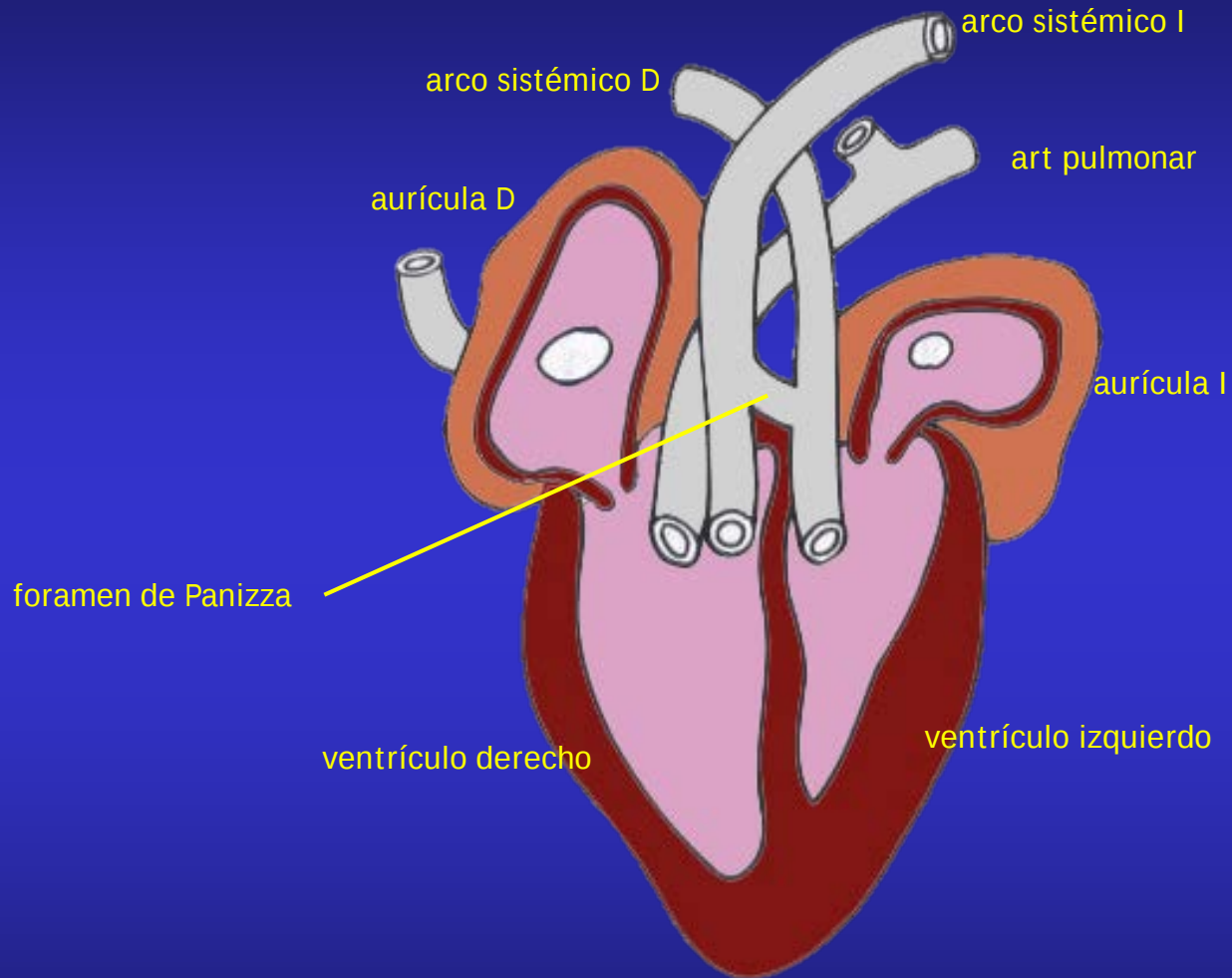
Tierra



Inmersión

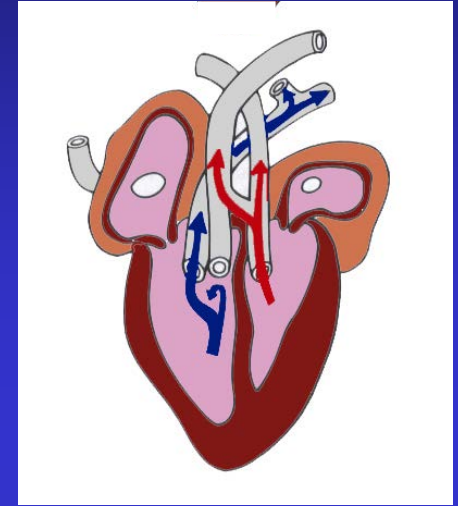
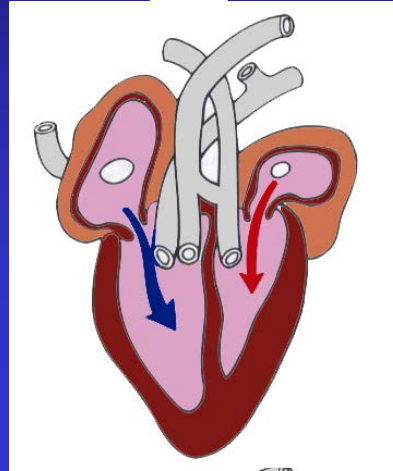
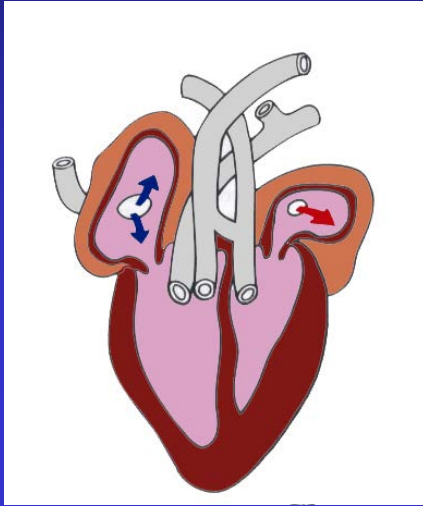


Corazón cocodrilos

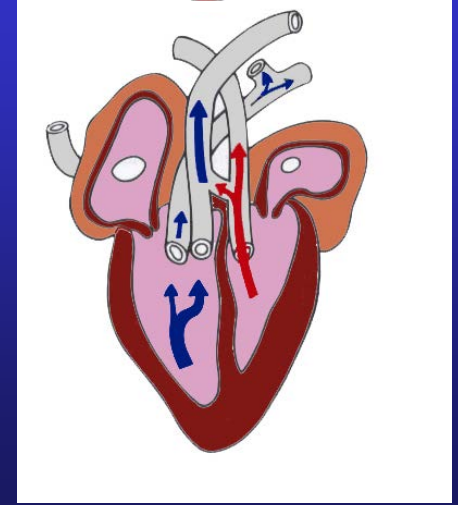
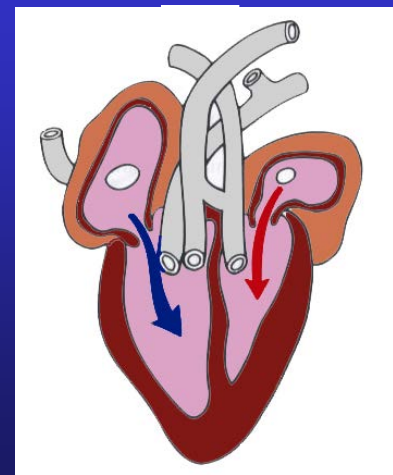
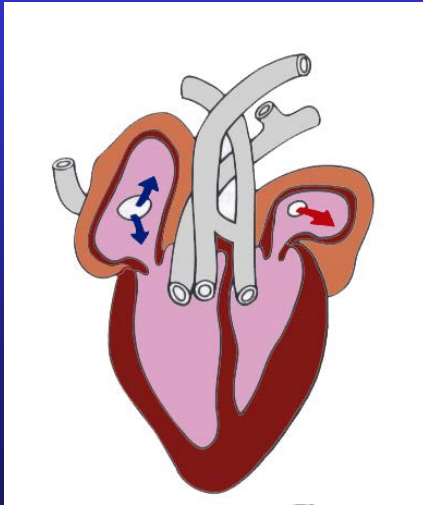


Corazón cocodrilos

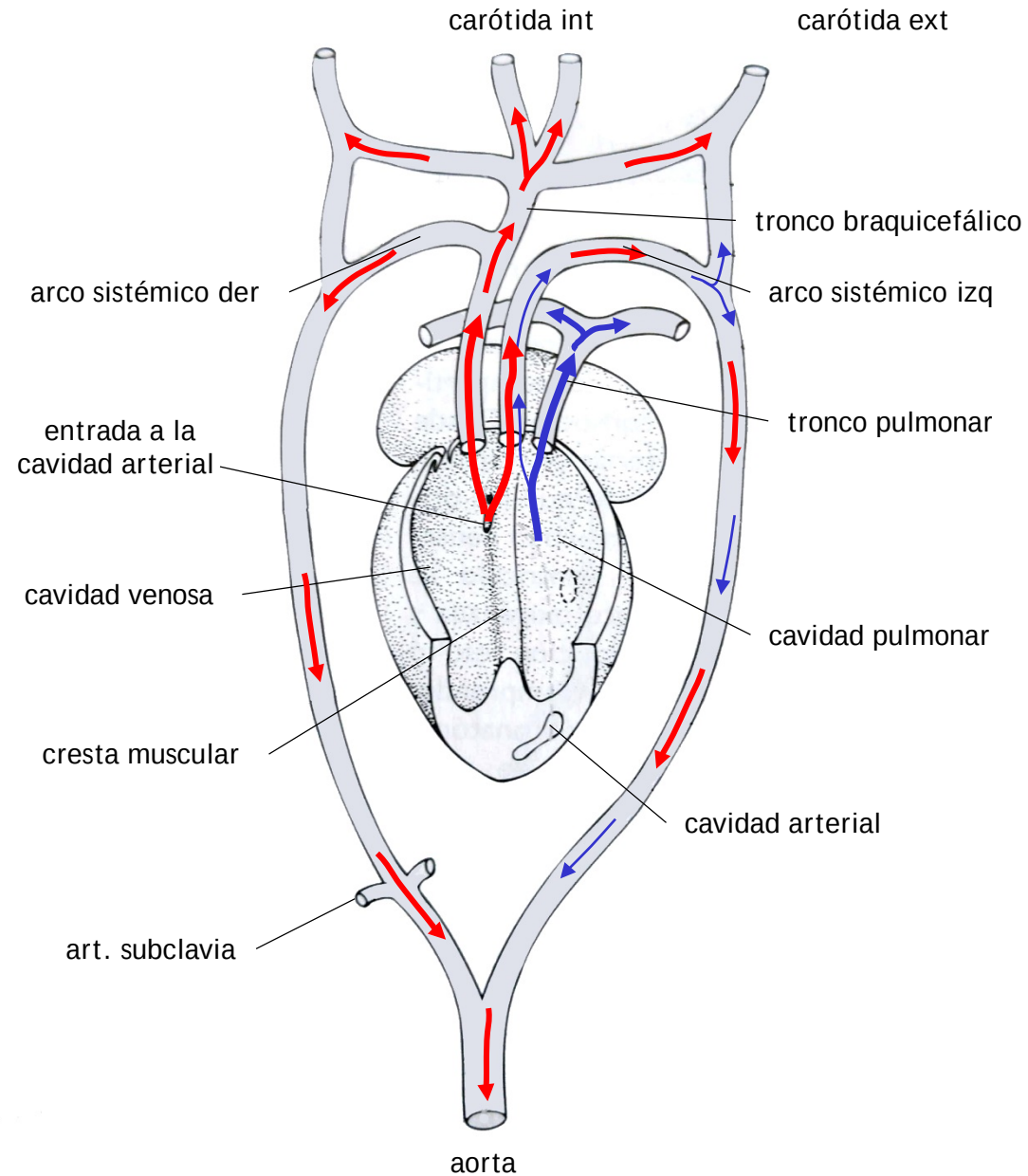
Tierra



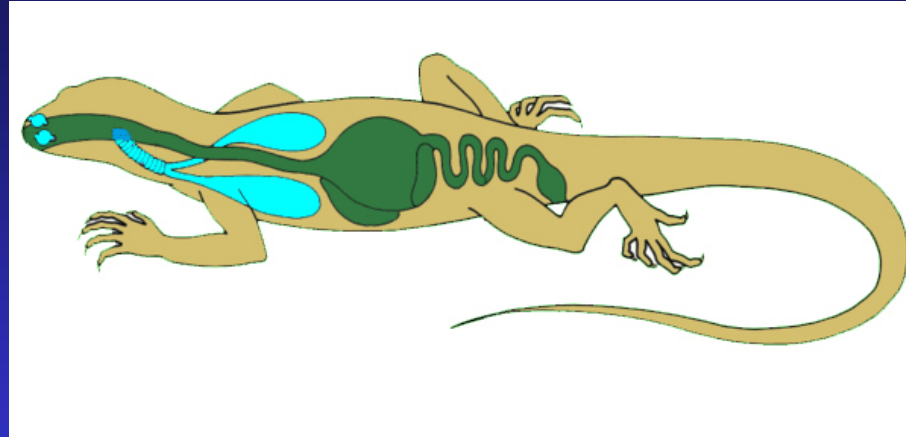
Inmersión



Arterias



Aparato Respiratorio



Narinas



Glottis

