



Cvičení ze zoologie bezobratlých II

Cephalopoda a Bivalvia

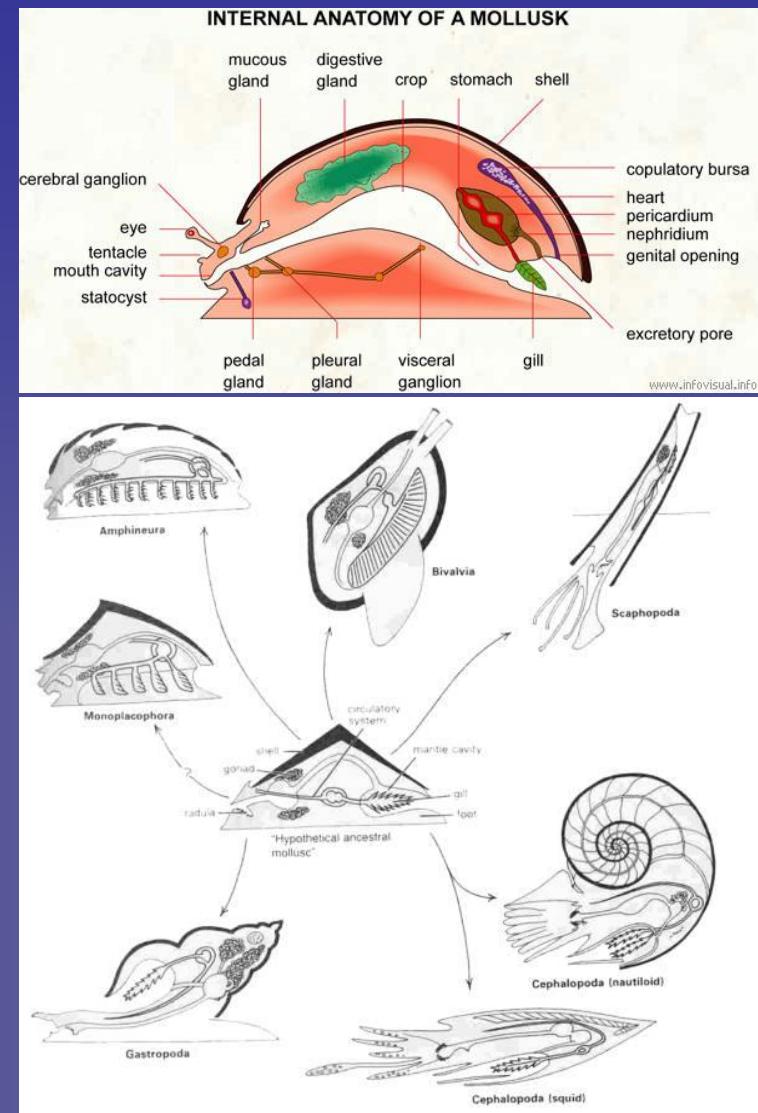
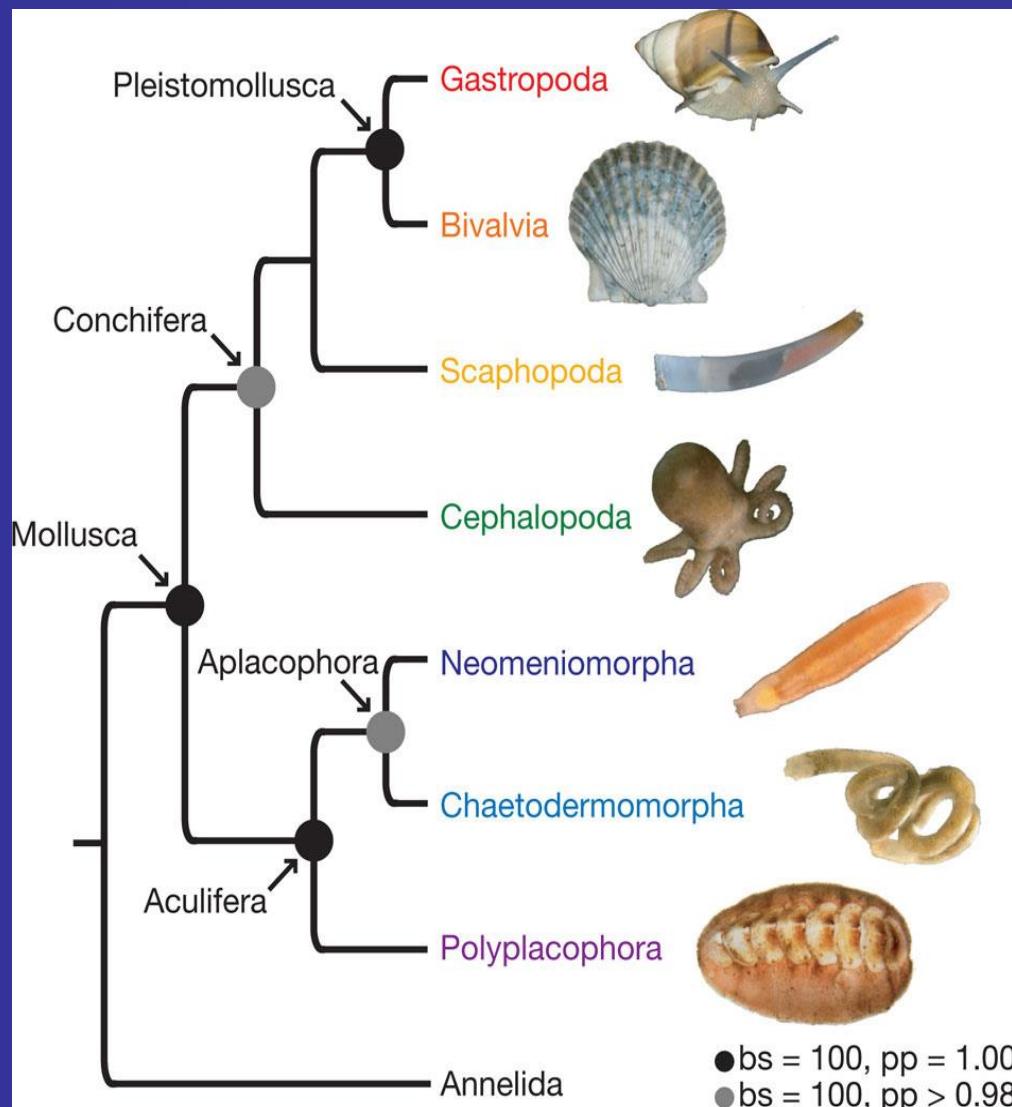


26.2.2013

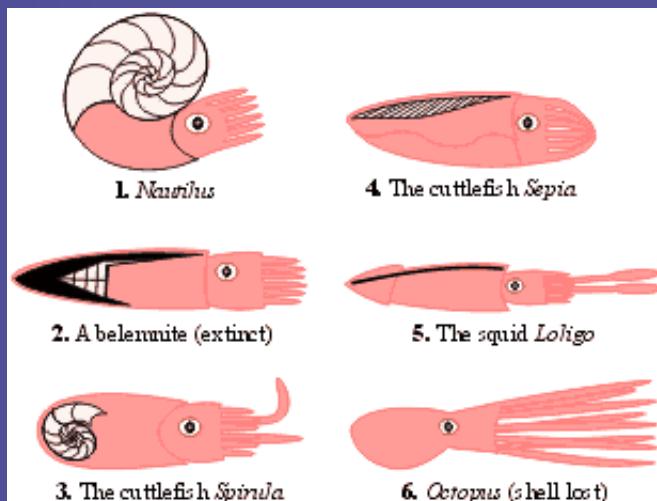
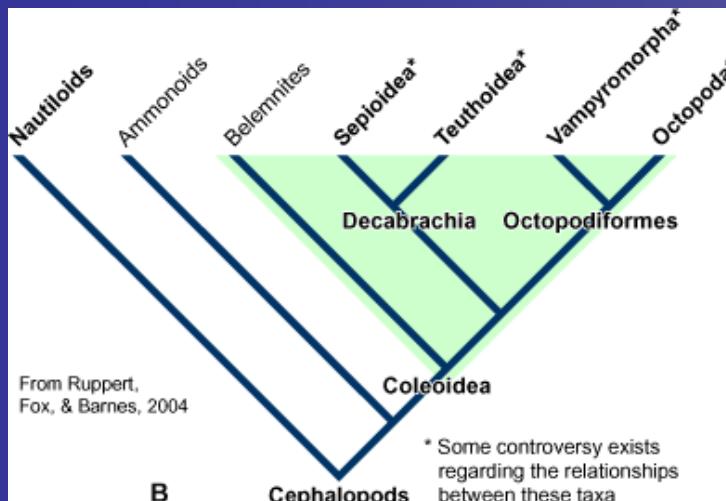
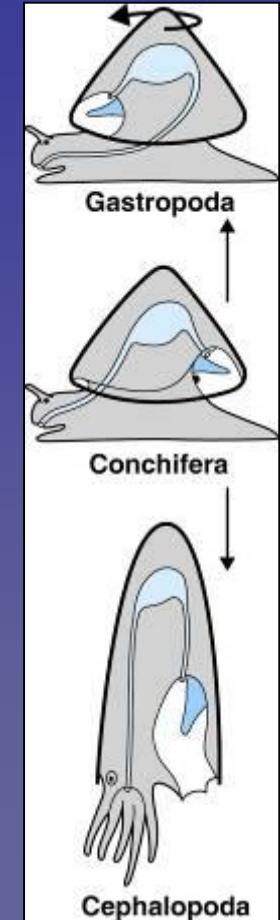
Oldřich Nedvěd, PřF UK



Mollusca



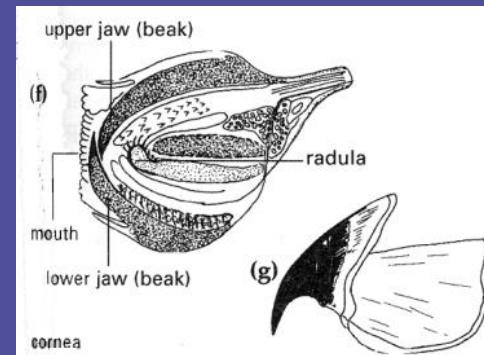
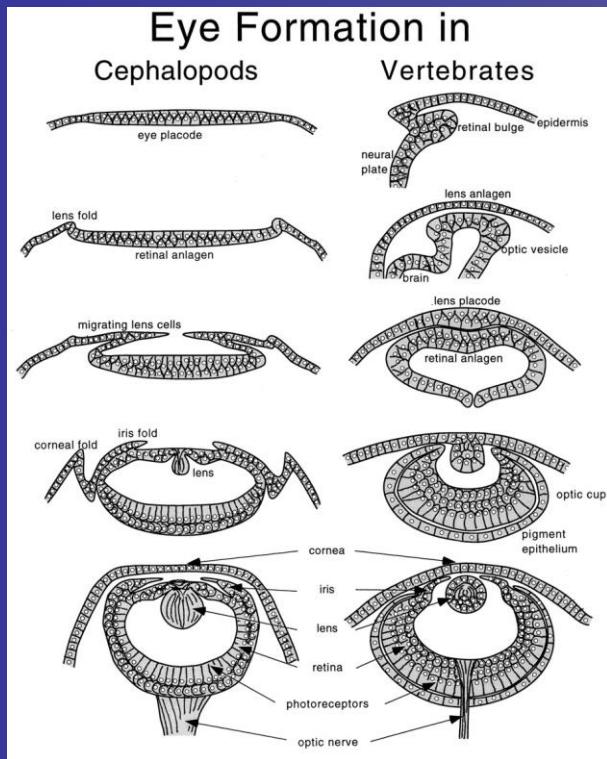
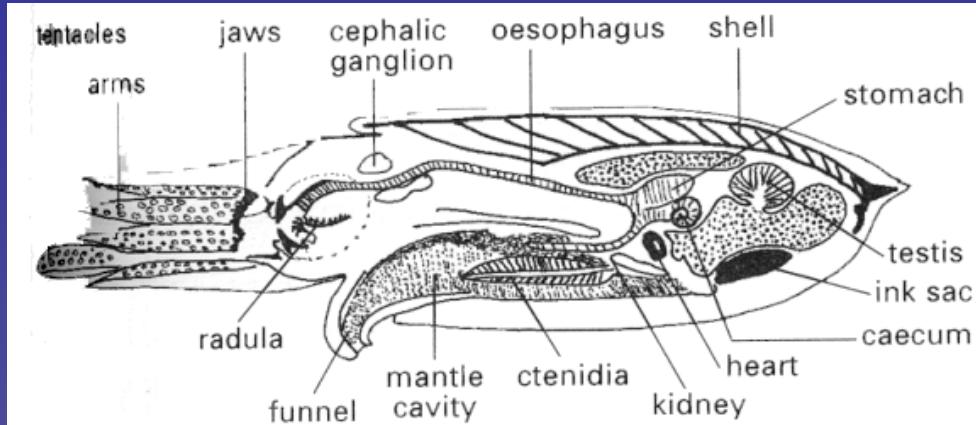
Mollusca - Cephalopoda



Cephalopoda

– Hlava

- Chladila – potrava, pohyb, rozmnožování
- Oči
- Mozek
- Čelisti - někdy jedová žláza
- Radula



Cephalopoda

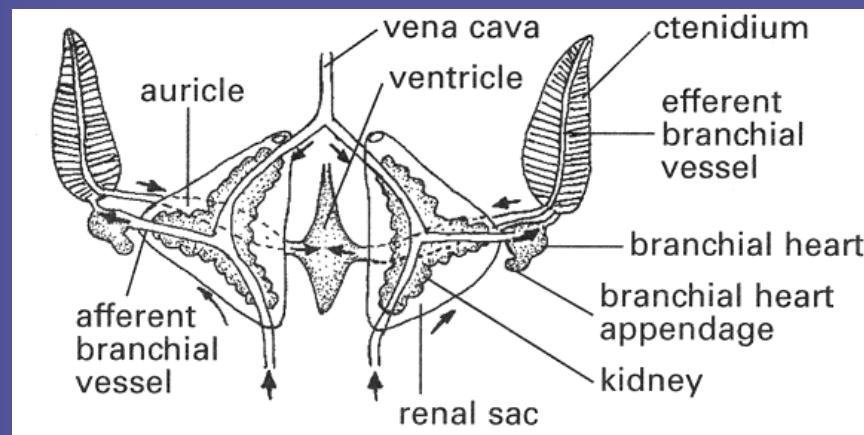
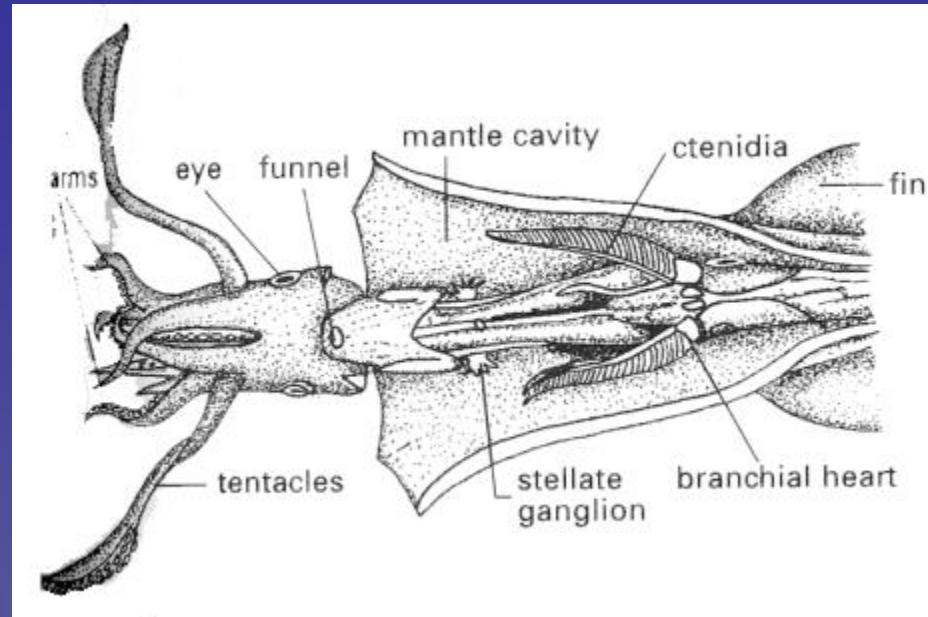
- Tělo
- Srdce – pomocná srdce u žabér
- Ledviny
- Inkoustová žláza
- Gonády

- Plášt'

 - Dutina
 - Žábra

- Nálevka

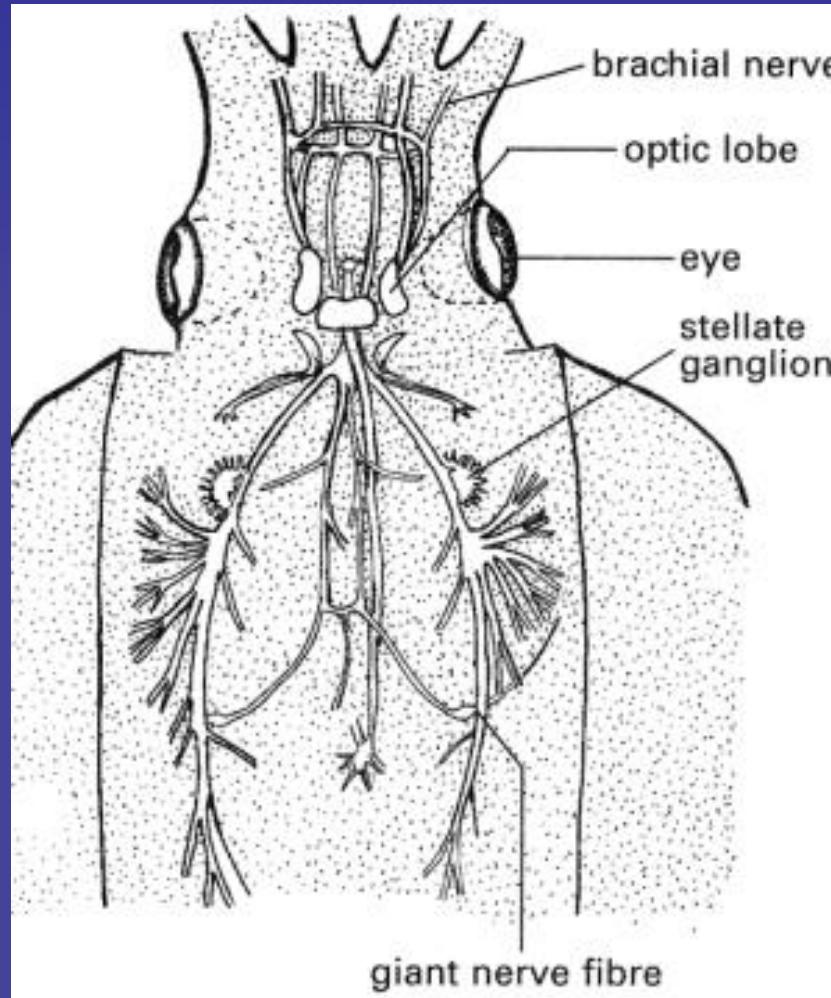
 - Pohyb
 - Vylučování
 - Inkoust



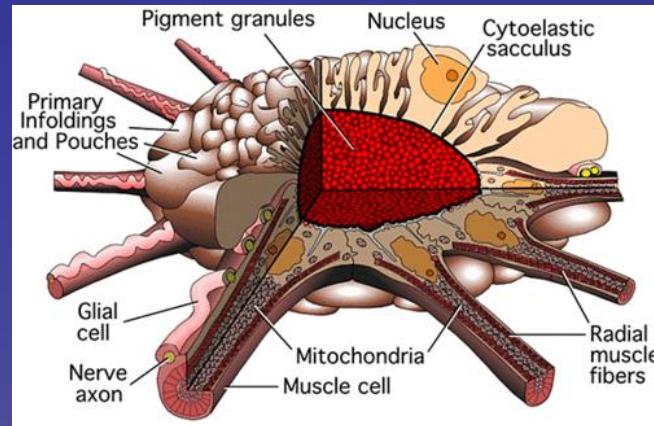
Cephalopoda

– Nervová soustava

- Mozek
- Lebka
- Tělová ganglia
- Chromatofory



Cephalopoda

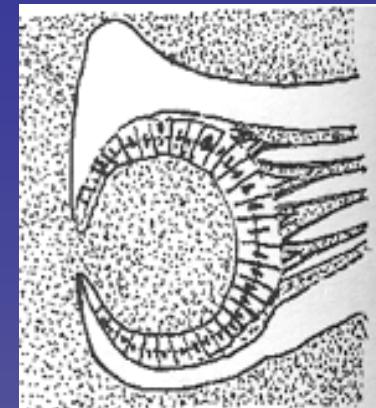
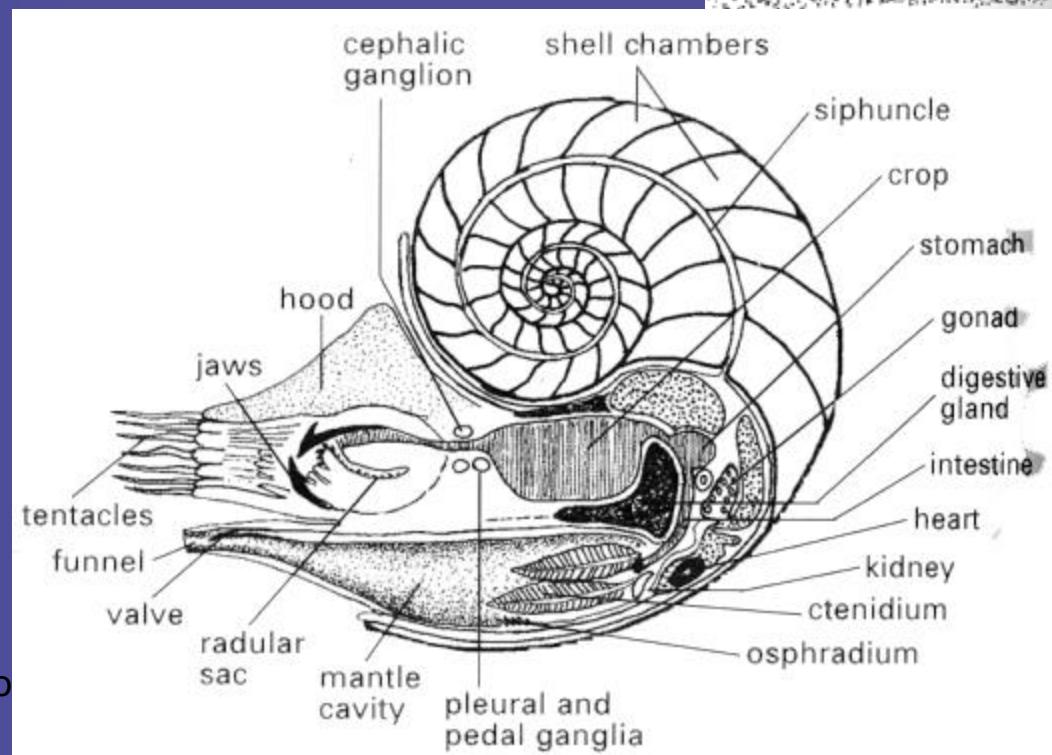


Cephalopoda

– Tetrabranchia = Nautiloida – loděnka



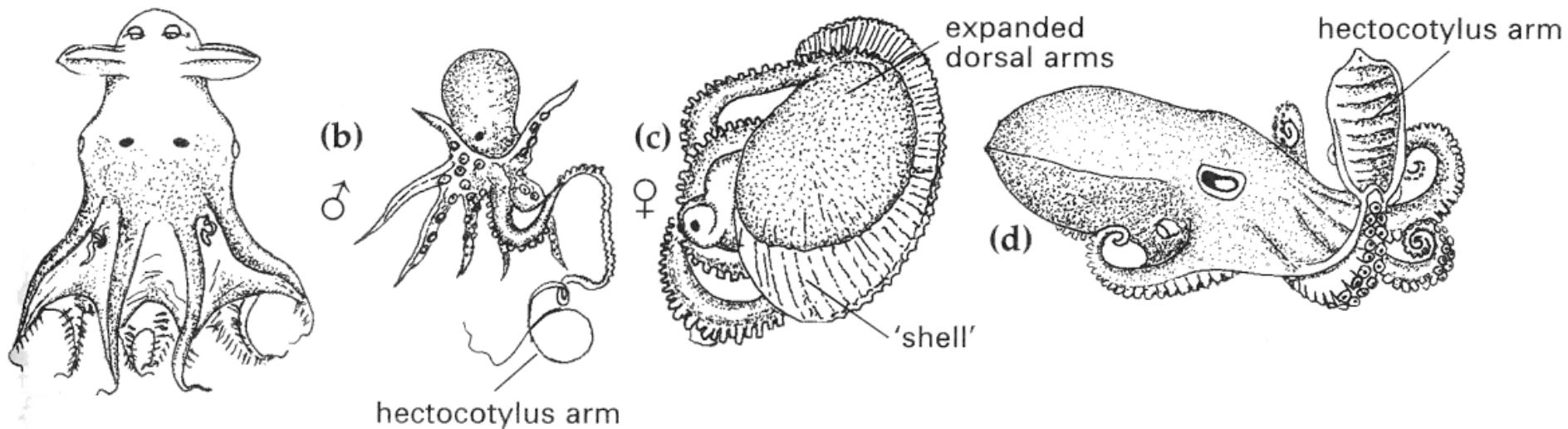
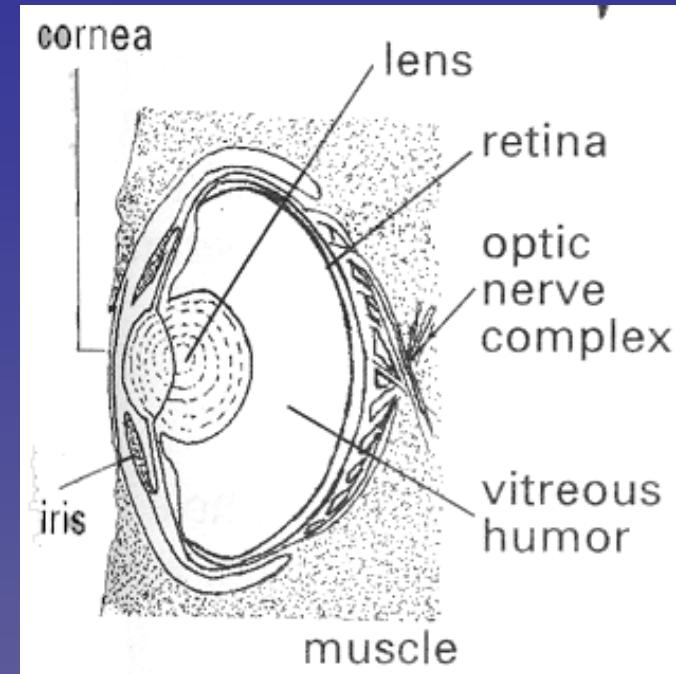
Bio



Cephalopoda

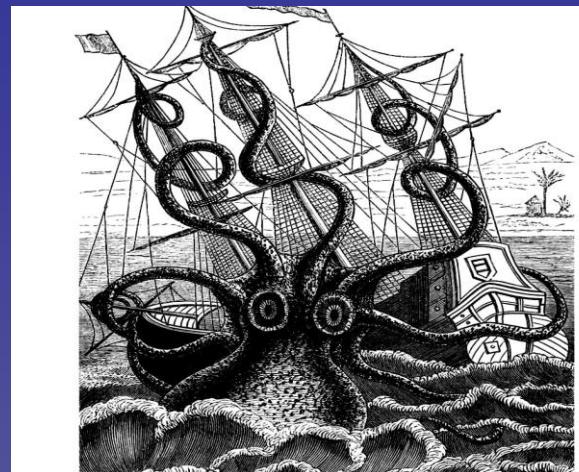
– Dibranchia = Coleoidea –

- Decabrachia
 - Oliheň, sépie
- Octobrachia
 - Chobotnice



Cephalopoda

- Octobrachia



- Decabrachia



Cephalopoda

- Chobotnice



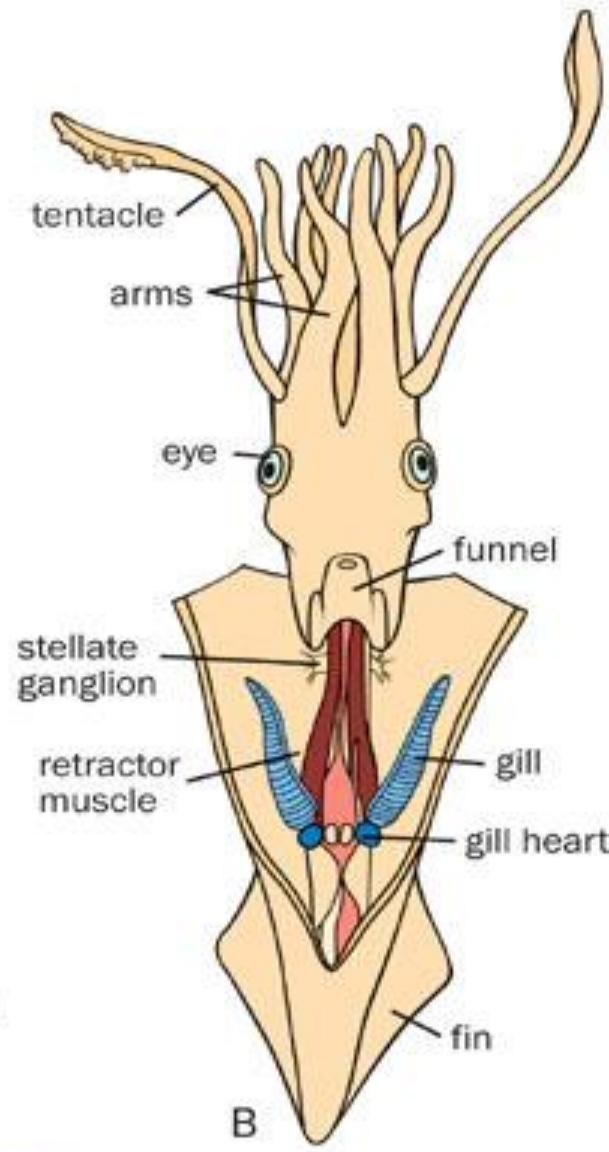
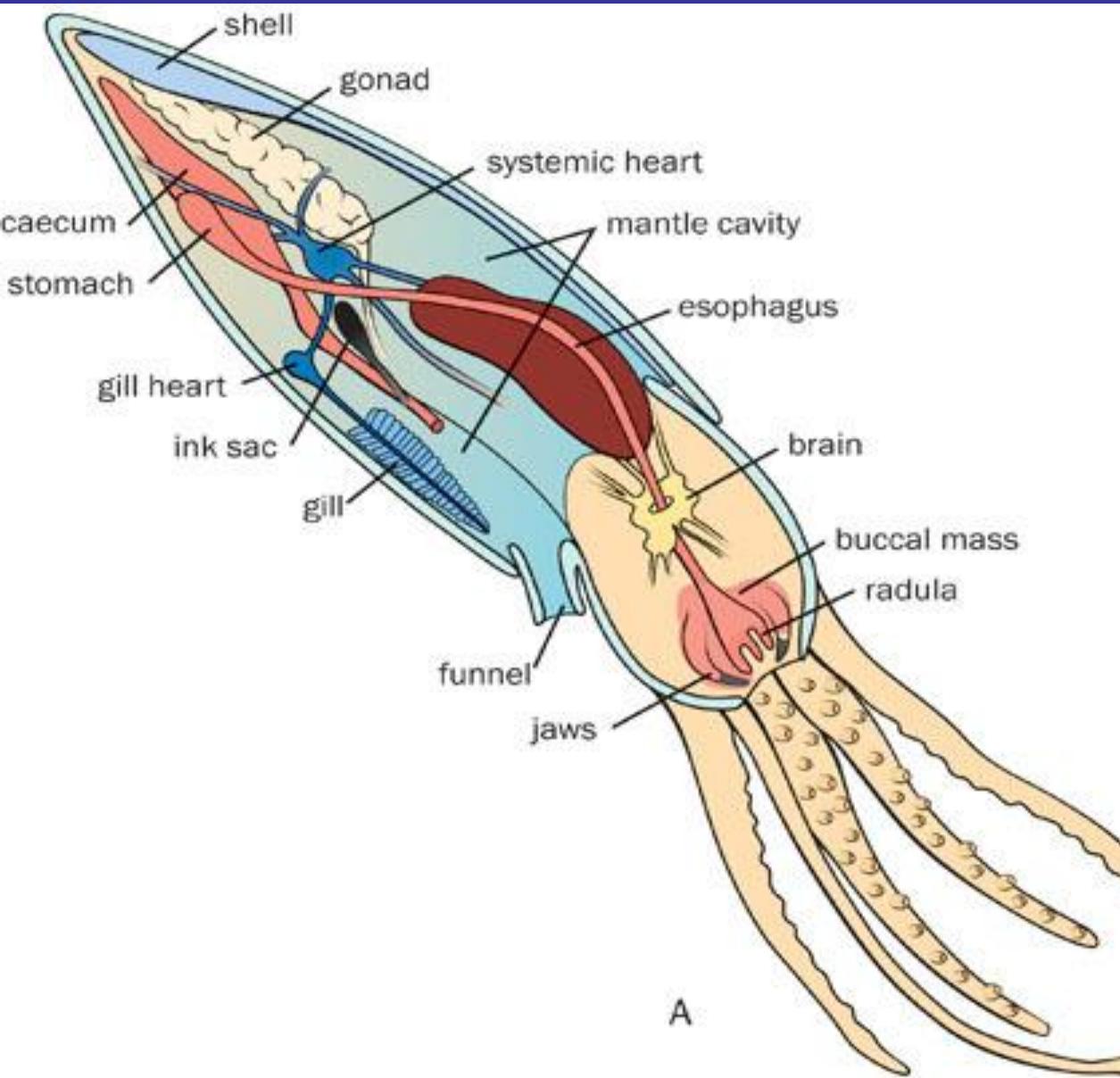
- Sépie



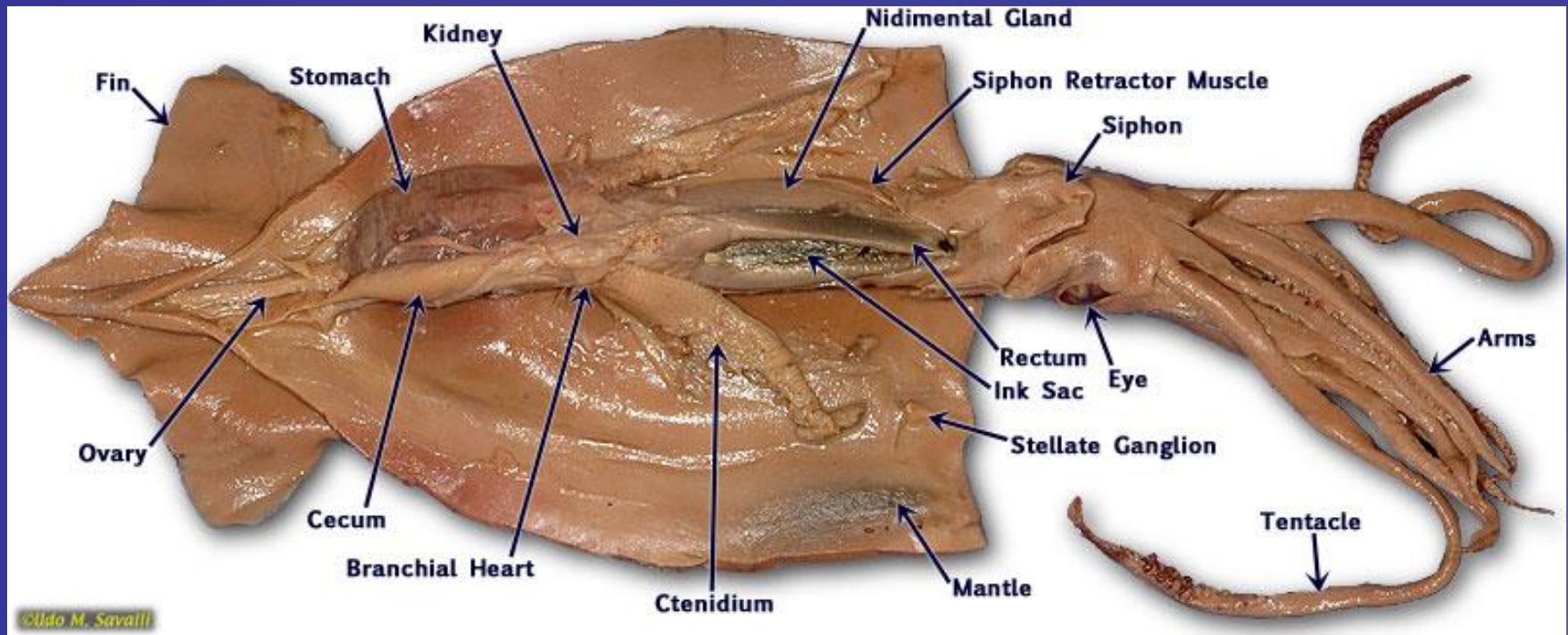
- Oliheň



vnitřek



Vnitřek reálně

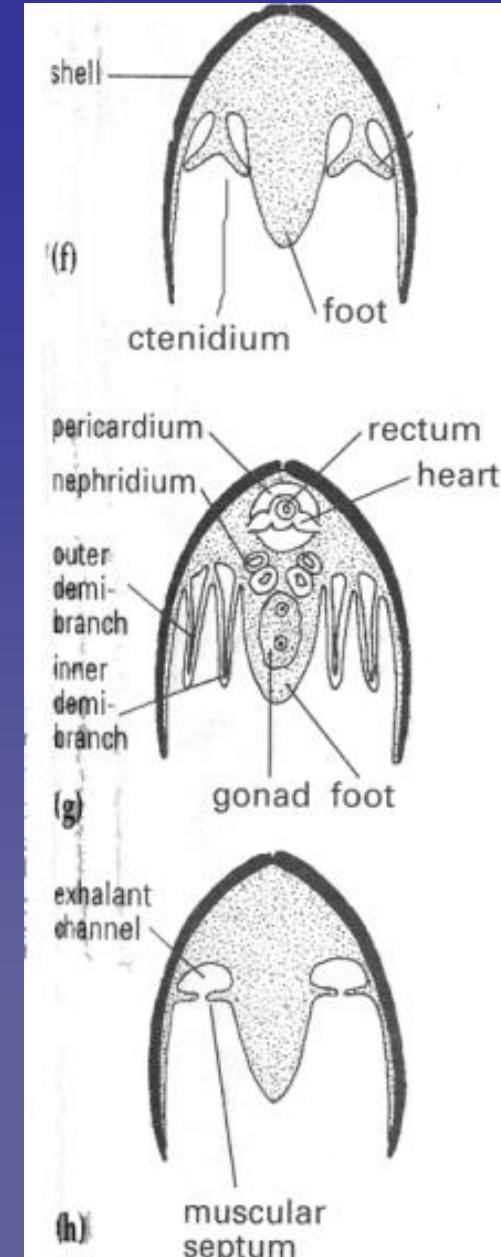
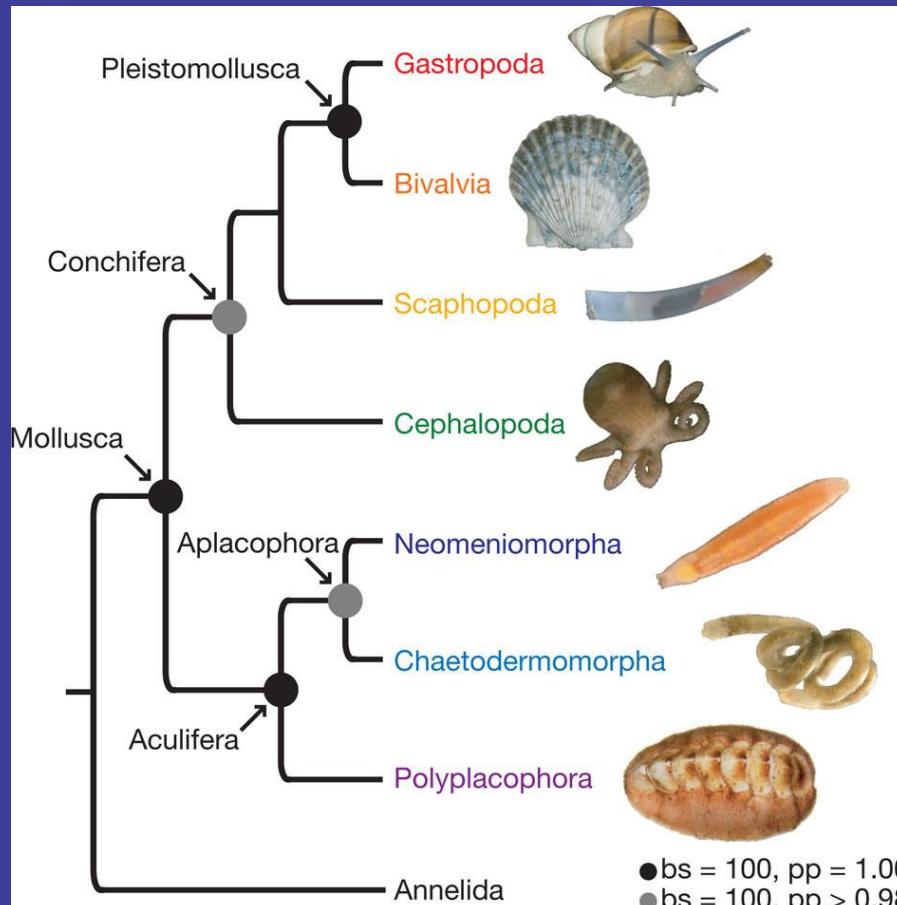


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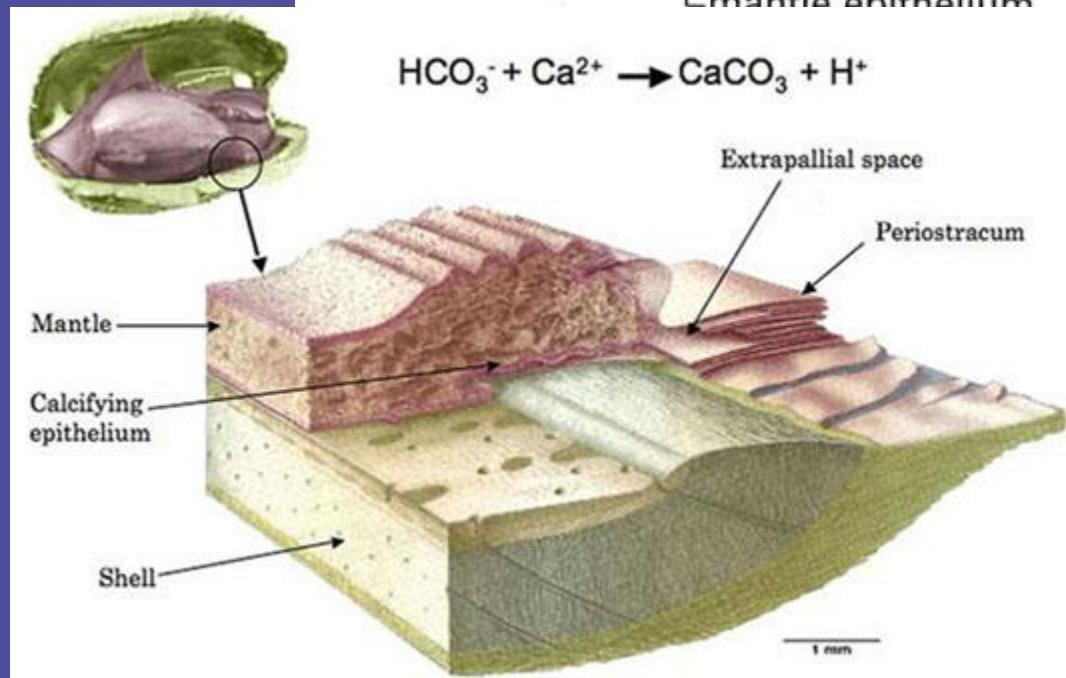
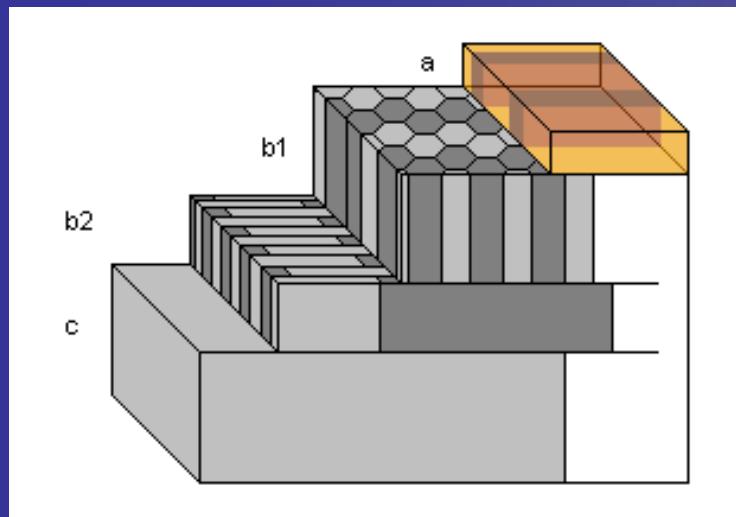
Mollusca: Bivalvia = Miži

- Dvouchlopňová schránka
- Plášt'
- Žábra
- Tělo s nohou



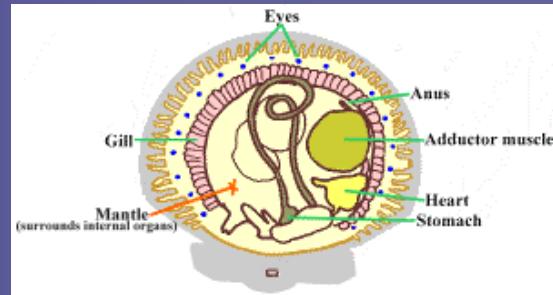
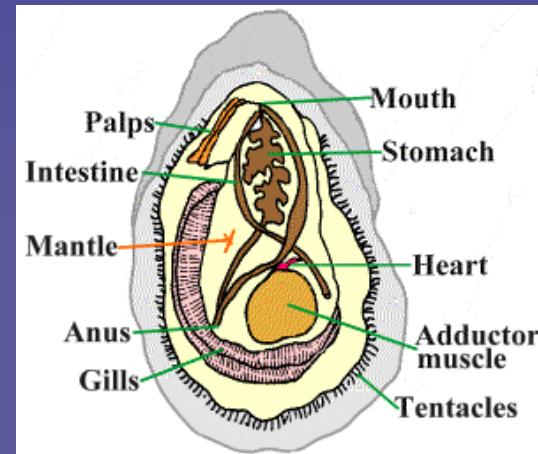
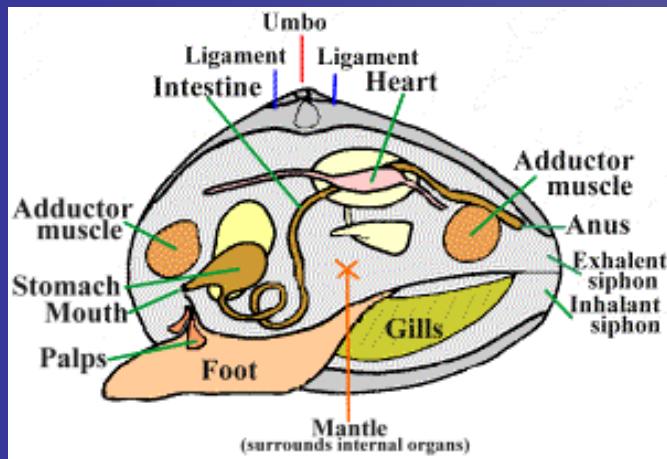
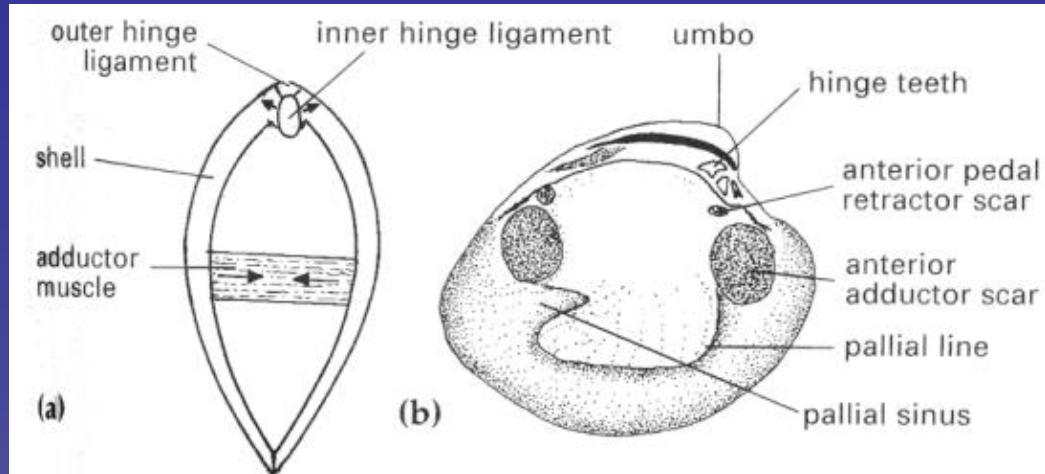
Mollusca - Bivalvia

- Schránka vytvářená pláštěm
- Periostracum
- Ostracum
- Hypostracum



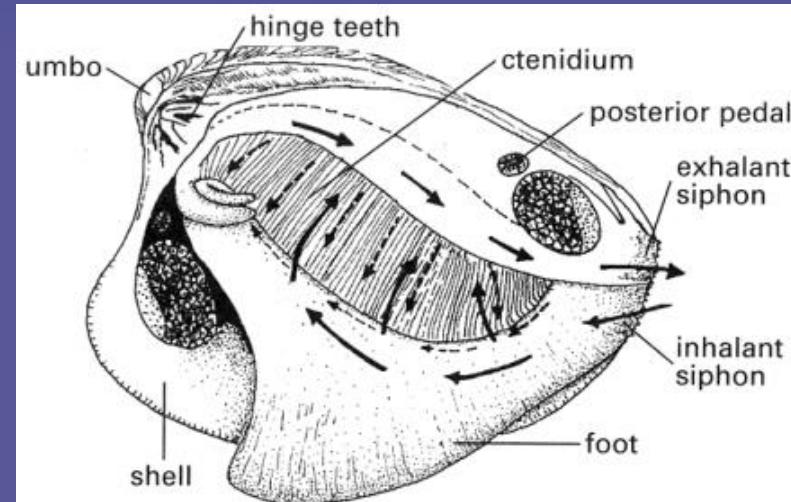
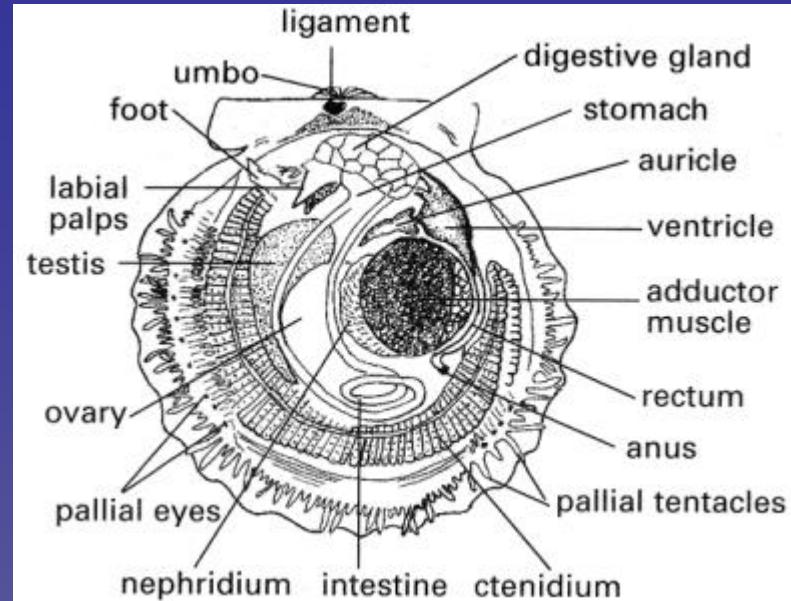
Bivalvia

- Ligament
- Zámek
- Připojení svalů
- Zatahovače
- Svěrače

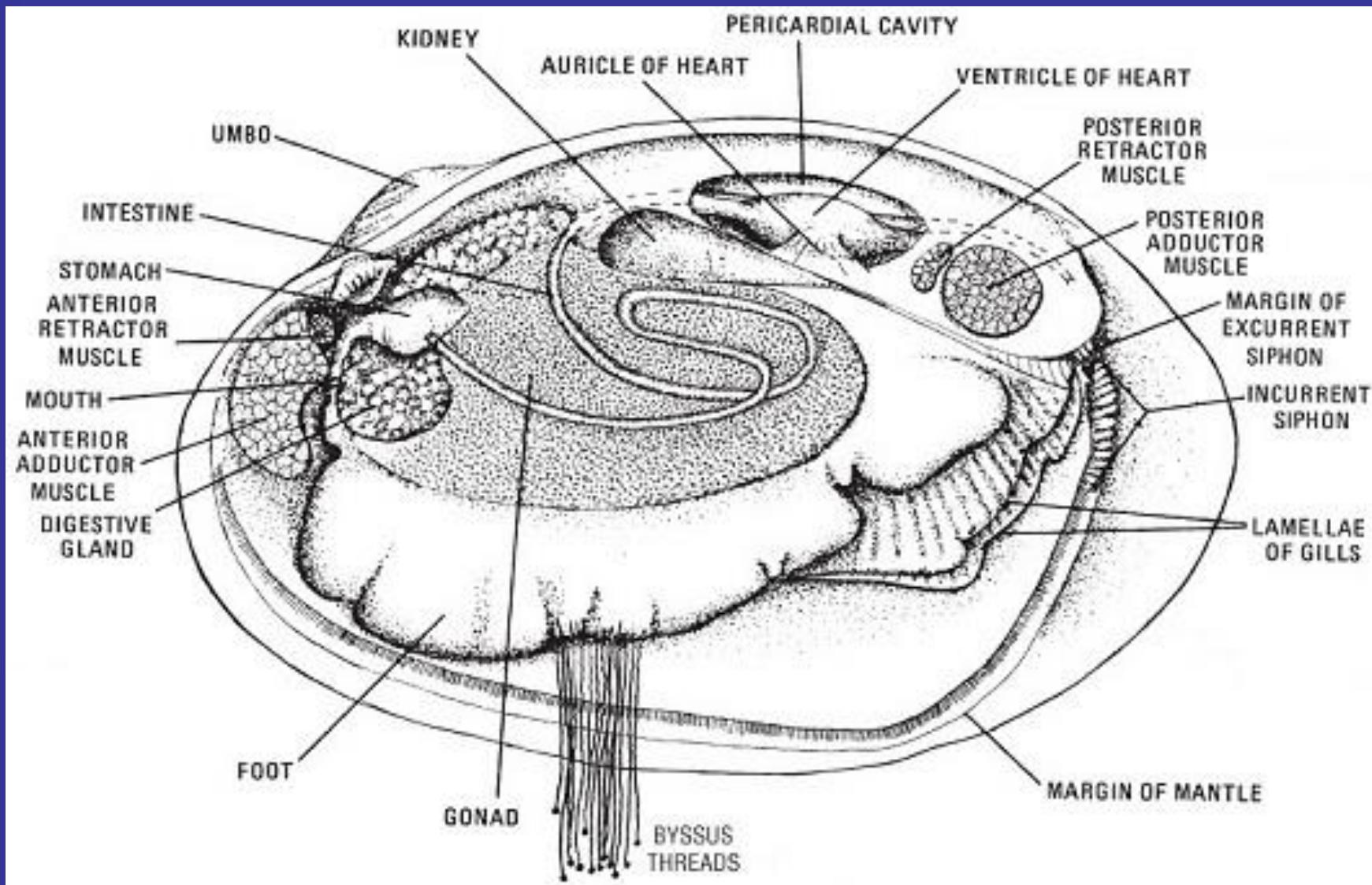


Bivalvia

- Plášt'
- Žábry
- Noha
- Oči

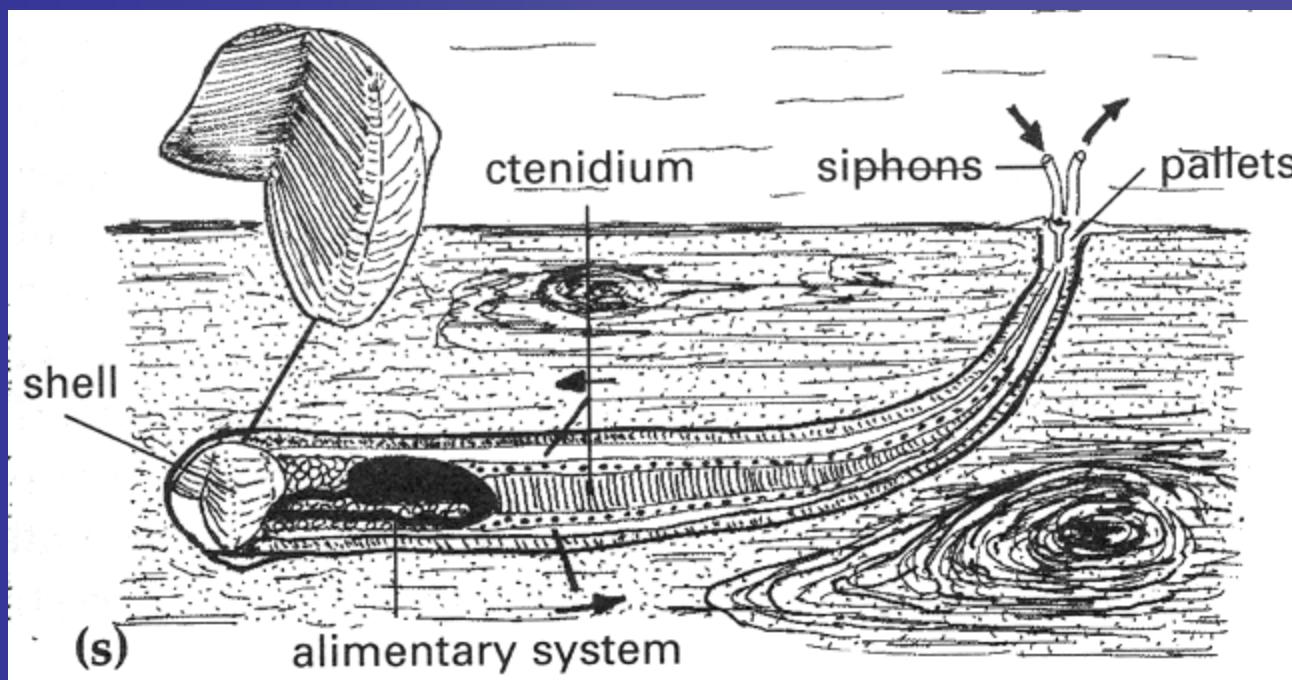


vnitřek



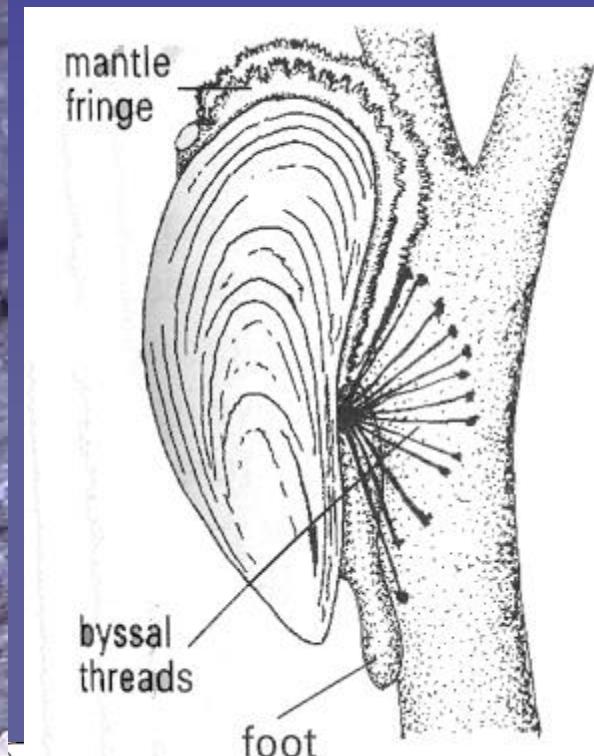
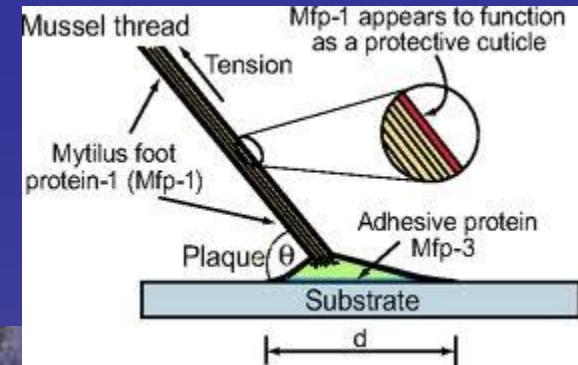
Bivalvia

- Sášeň (Teredo)
- Chodby vystlané vápníkem



Bivalvia

- Slávka (*Mytilus*)
- byssal threads
- 500 MPa



Bivalvia

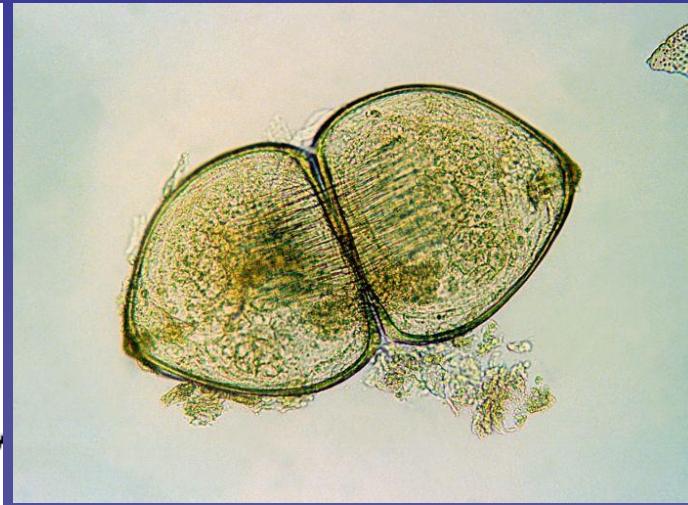
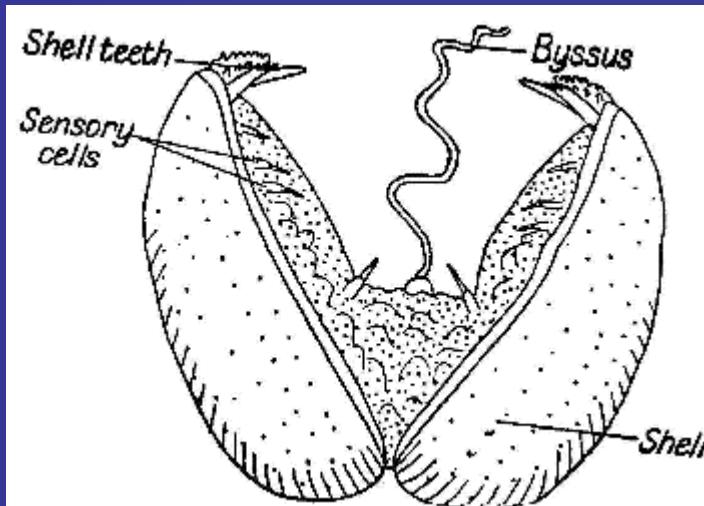
- Škeble (Anodonta)
- Velevrub (Unio)
- Perlorodka (Margaritifira)
- Hřebenatka (Pecten/Chlamys)
- Ústřice (Ostrea)
- Zéva (Tridacna/Hippopus)
- Slávička mnohotvárná (Dreissena polymorpha)



Bio

Bivalvia

– glochidie



als



Scaphopoda

Mořské

Žijí ve dně

Schránka otevřená na obou koncích

