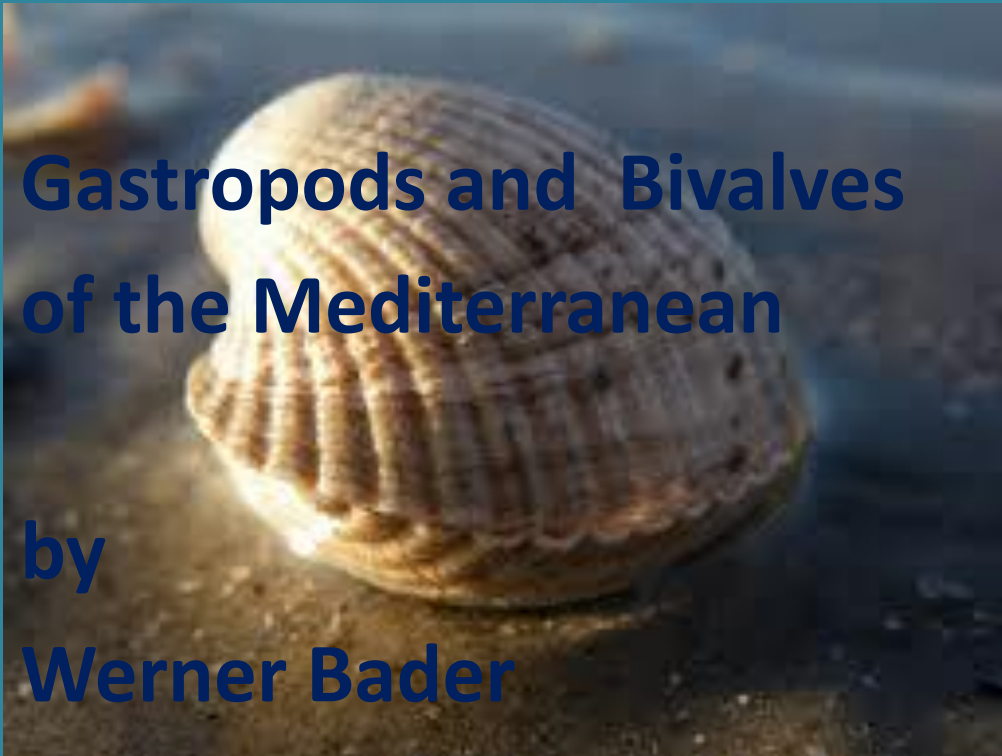


719519 Seminar aus Marinbiologie und Entwicklungsbiologie

Gastropods and Bivalves
of the Mediterranean

by

Werner Bader

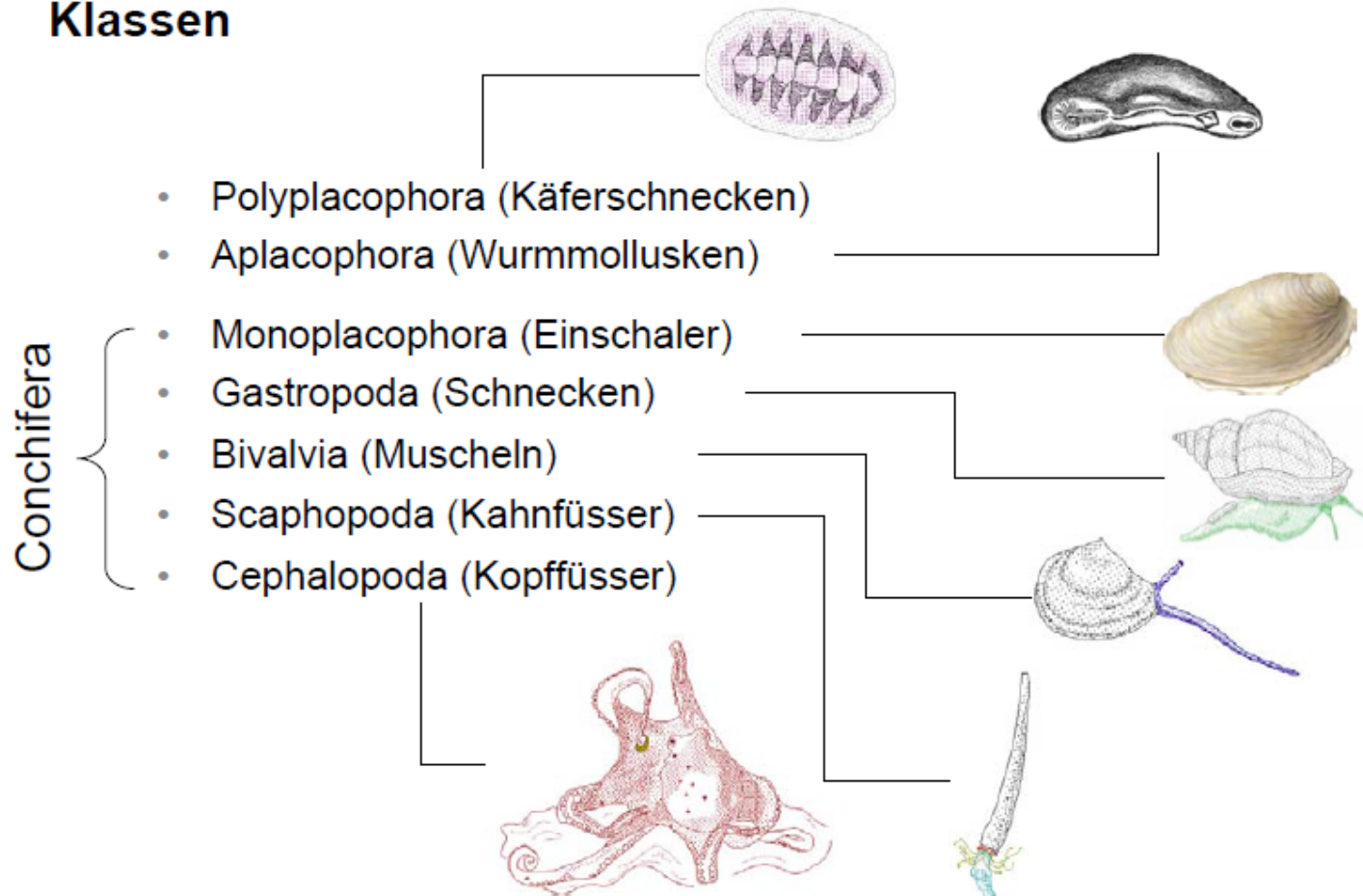


Contents

- Systematic
- Most important Species
- Occurance
- Comparison of two different Body Plans
(Anatomy of Bivalvia compared to Gastropoda)
- Reproduction
- Development of these two Families
- Literature Index

Systematic of Molluscs

Klassen



Systematic of Gastropods

Prosobranchia

- Archeogastropods
- Mesogastropods
- Neogastropods
- Allogastropods

Pulmonata

- Gymnomorpha

Opisthobranchia

- [Anaspidea](#)
- [Cephalaspidea](#)
- [Gymnosomata](#)
- [Notaspidea](#)
- [Nudibranchia](#)
- [Sacoglossa](#)
- [Thecosomata](#)

Systematic of Bivalves

Protobranchia

with original Ctenidia

substrate-eater

Eulamellibranchia

leaf gills with blood vessels

Tissue bridges between the gill filaments

Septibranchia

Reticulate gills, lives in deep-water

Most important species of Gastropods



Aporrhais pes-pellicani



Calliostoma laugieri



Haustellum sp.



Luria lurida



Turbonilla lastea



Atlanta peroni



Mitra cornicula



Turritella comunis



Aplysia punctata

Most important species of Bivalves



Mytilus edulis



Ensis ensis



Ostrea edulis



Callista chione



Pecten jacobaeus

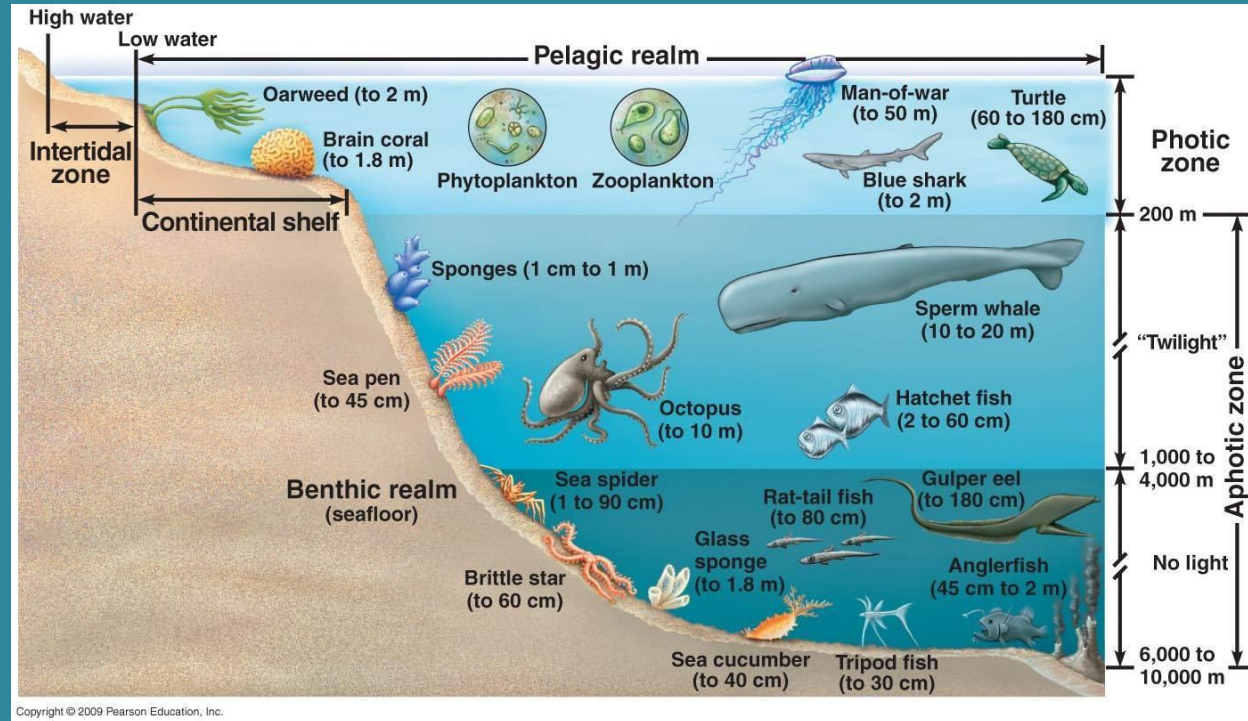
Occurance

Gastropods

- Litoral
- Sublitoral
- Benthic
- Pelagic

Bivalves

Residents of all sea bottoms

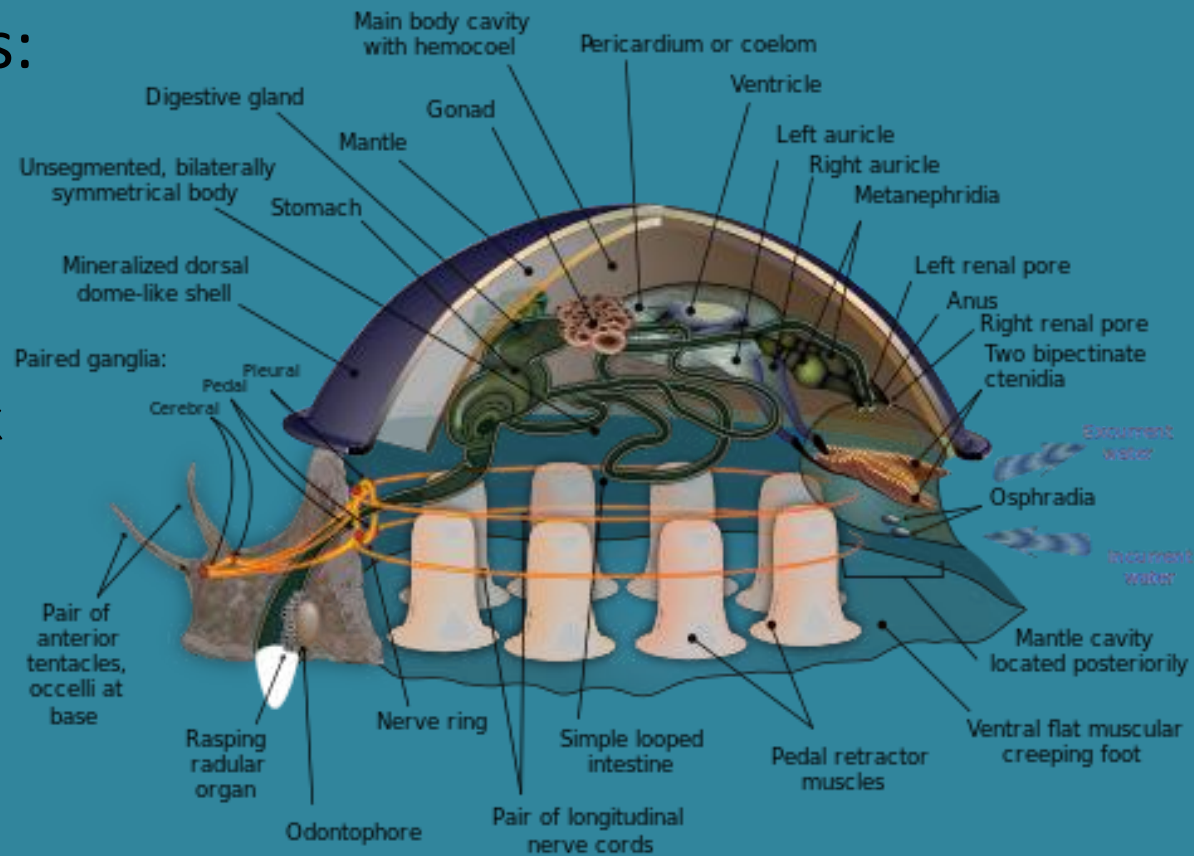


Comparison of two different Body Plans (Anatomy of Bivalvia compared to Gastropoda)

- Basic anatomical organisation of molluscs

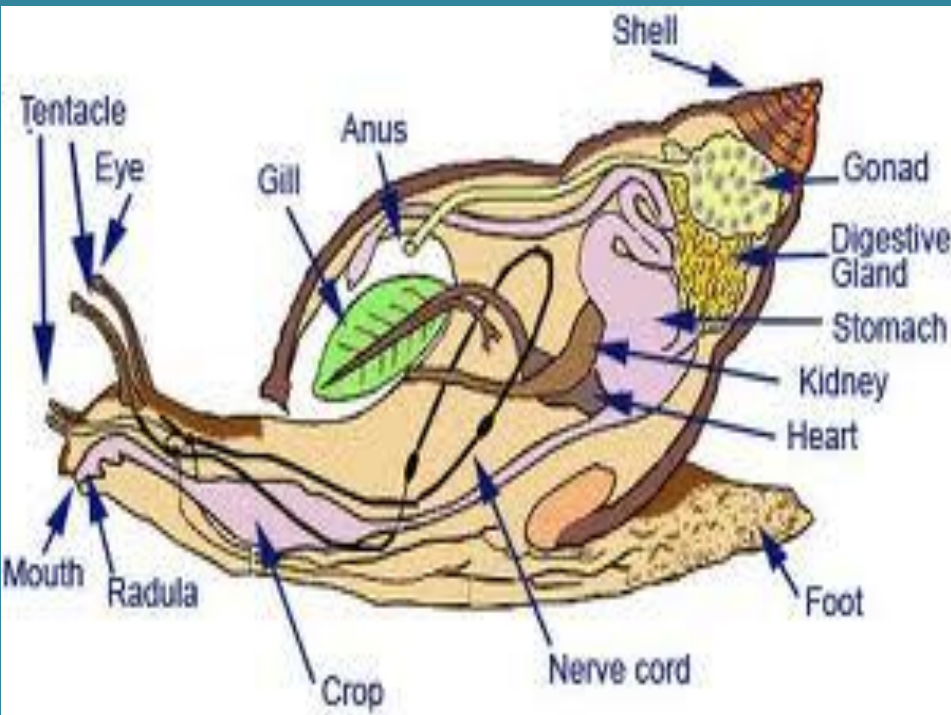
- Five main parts:

- Head
- Foot
- Mantle
- Intestinal sack
- Shell

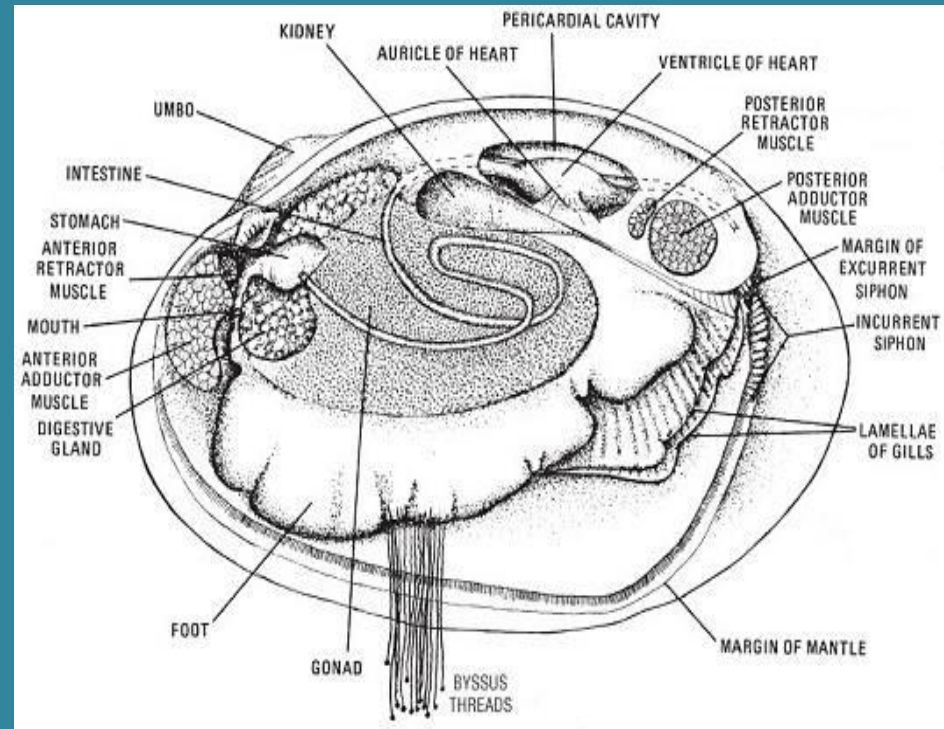


Comparison of two different Body Plans (Anatomy of Bivalvia compared to Gastropoda)

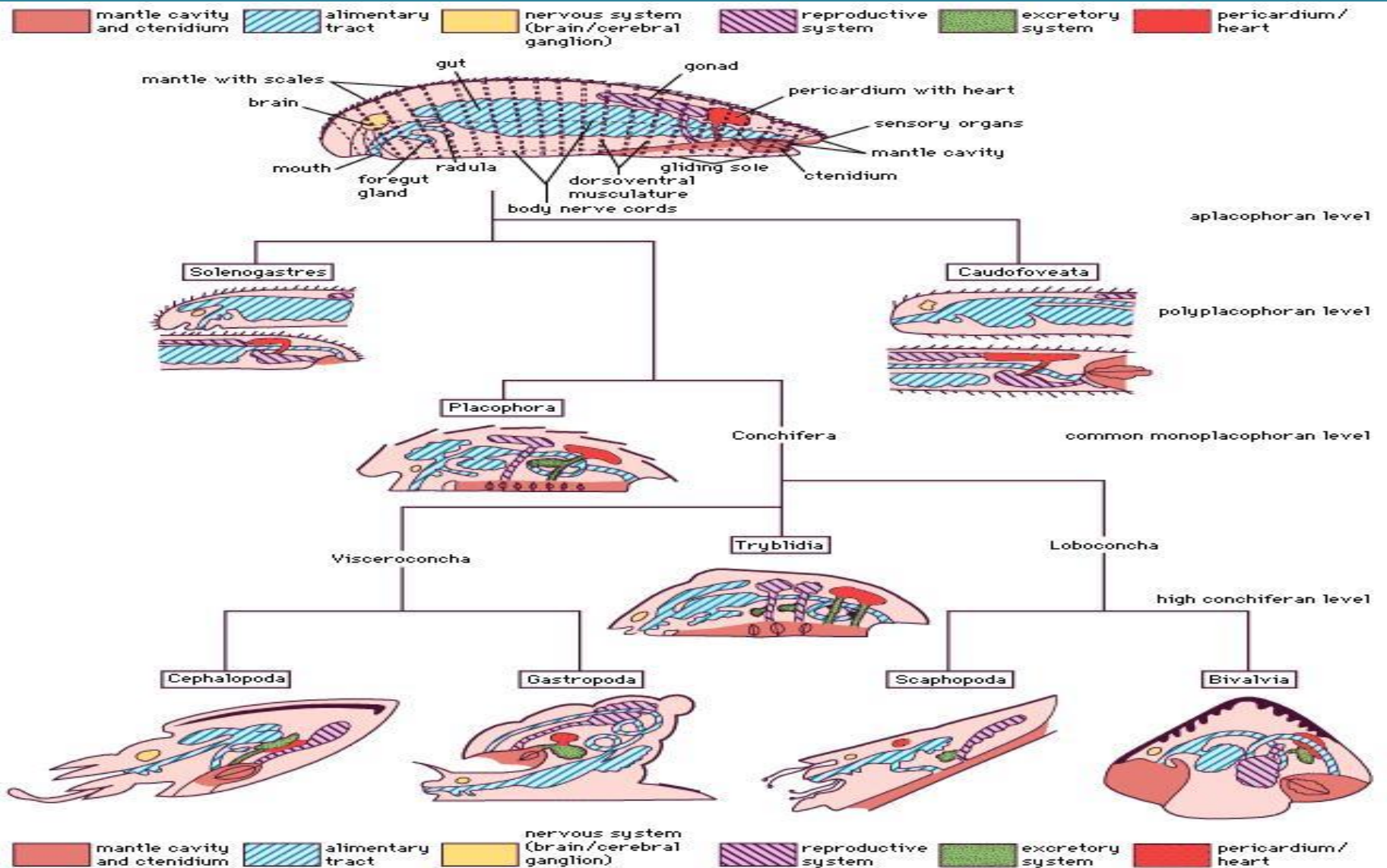
Anatomy of Gastropods



Anatomy of Bivalves



Comparison of two different Body Plans (Anatomy of Bivalvia compared to Gastropoda)



Reproduction

Gastropods

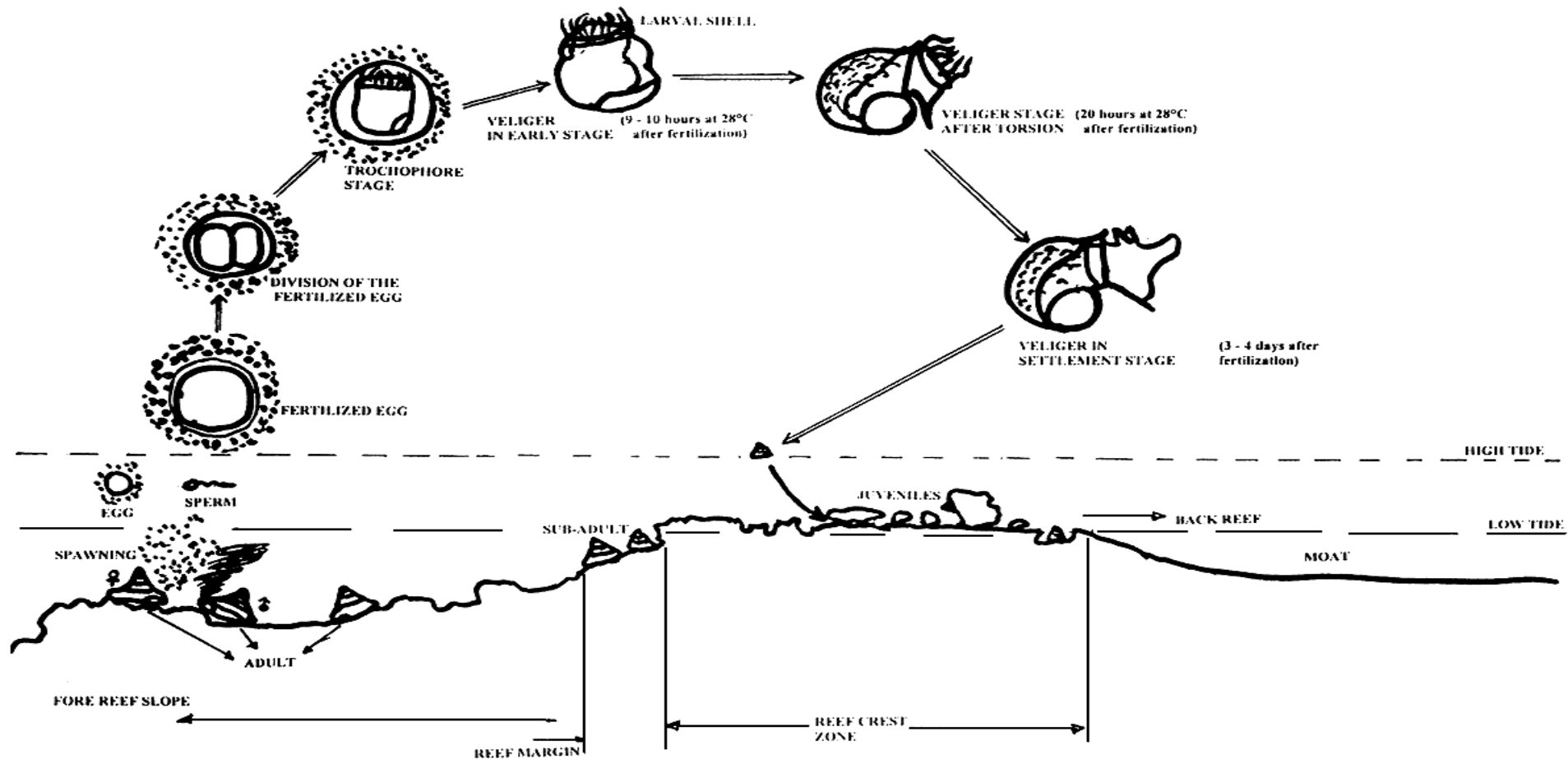
- Primarily separate sexes
- Vast majority are Hermaphrodites
- Rare Parthenogenesis
- Lay fertilized eggs

Bivalves

- Dioecious
- Hermaphrodites
- Fertilization occurs in the water

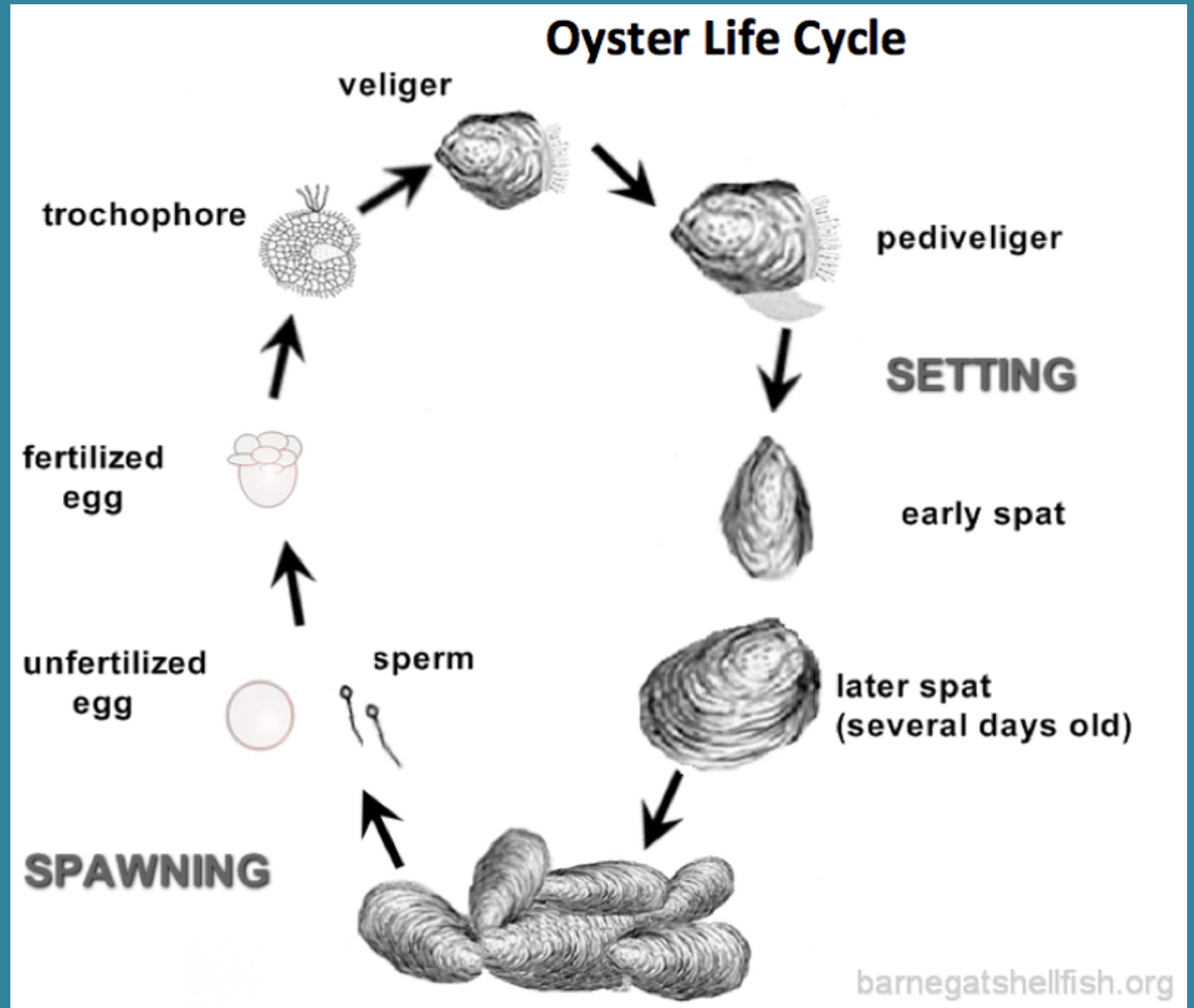
Development

Gastropods



Development

Bivalves



Film

- http://www.youtube.com/watch?v=u_RfgvIETEY

Picture and Literature index:

- <http://en.wikipedia.org/wiki/Mollusca>
- <http://www.nmr-pics.nl/Calliostomatidae/album>
- www.google.at/Aporrhais
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Are there any Questions?

