

Phylum Cnidaria

3 CLASSES

Class Scyphozoa (Jellyfish)

Class Hydrozoa (Hydra, fire coral)

Class Anthozoa (Anemones, corals, sea whips)

Phylum Porifera (sponges) 3 TYPES

Choanocytes
Spongin/spicules
MesoHYL
Amoebocytes, etc.

Medusa dominant & pelagic
Some Polyp

LOTS of Mesoglea – 'jelly'
in the medusa form.

Polyp dominant & sessile
Some Medusa

Polyp ONLY
& sessile

Cnidocytes/nematocysts
GVC
MesoGLEA
Nerve net
Polyp/Medusa
Radial Symmetry

At least 2 tissue layers (diploblastic)

At least Tissue Level of
Organization

At Least Cellular Level of
Organization

Kingdom Animalia

Hypothetical common ancestor

FIGURES TO KNOW:

Cnidaria

- Fig. 2.1 – All, except exumbrella and subumbrella ;
- Fig. 2.2 – All, note diploblastic condition (2 cell layers) in cs, spermary/ovary = GONAD;
- Fig. 2.3 – 2, 3, 6a, 6b, 7, 8;
- Fig. 2.4 – Know the types of zooids;
- Fig. 2.5 – GVC (1-2), 5, 6, 12, 16, 18; Fig. 2.6 - names & order of life cycle stages;
- Fig. 2.7 – 1, 2, 15, 16;
- Fig. 2.8 – Know that Anthozoans have no medusa in life cycle