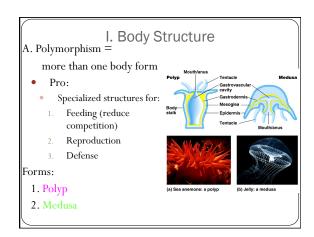
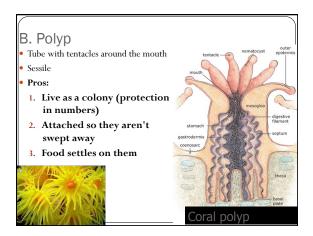
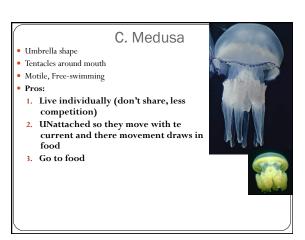
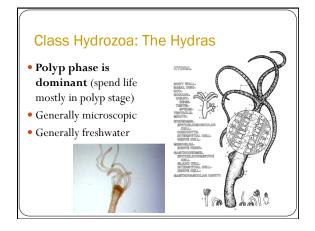
Cnidarian Notes TOC# 6

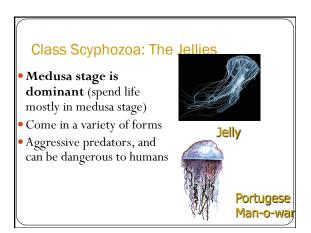




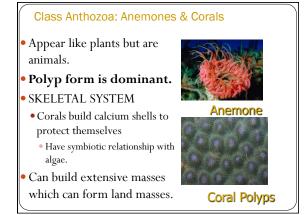


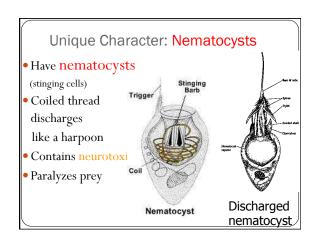


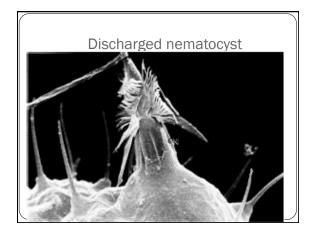




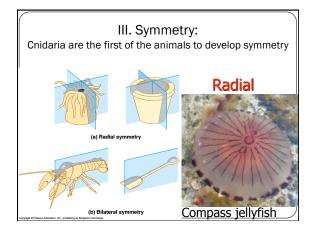
Cnidarian Notes TOC# 6

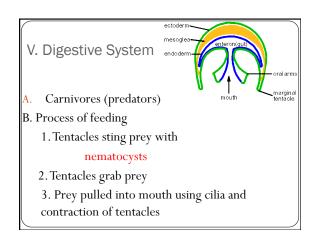






II. Level of Organization
A. Tissue
B. No organs





**TOC# 6 Cnidarian Notes** 

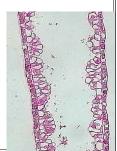
Digestive System: Process of feeding

- 4. Prey stuffed into gastro-vascular cavity (GVC)\*
- 5. GVC makes enzymes, extra-cellular digestion (outside cell)
- 6. Undigested food back out mouth

\*incomplete digestive tract (no separation between anus & mouth = MANUS )

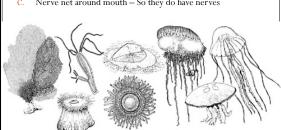
# VI. Respiration

- Via diffusion
  - Pull O2 out of the water and release  $CO_2$  into the water across the surface of the organism
- Body is two cell layers thick
  - Facilitates diffusion



# IX. Response

- No cephalization (development of a head)
- No Central Nervous System (CNS)
- Nerve net around mouth So they do have nerves



#### IX. Nervous System: Response to Environment

- C. Sensory cells
- 1. Chemoreceptors (chemicals)
- 2. Thigmoreceptors (touch)
- 3. Photoreceptors (light)

Ocelli (eyespots)

4. Statocysts (balance)

### XI. Reproduction



### Reproduction

- •Sexual:
  - Reproduction can occur sexually by fertilization of egg and sperm forming larvae.
- •Asexual:
  - •Reproduction can also occur asexually through **budding**

# Summary: Phylum Cnidaria

- Cnidarians Include Hydras, jellyfish, sea Mouth anemones & corals
- Radially symmetrical
- Acoelomate
- Two basic forms:
  - •Polyp: Cylindrical form which attach bases to substratum
  - •Medusa: Flattened, mouth down version of the polyp. Moves