Animals 3

- send answer to iClicker Question 18A now.
- Planarian II
- Nematode

Daniela Baque

- Squid
- Moth I
- iClicker Question 18B

Nothing due in lab **next** week: LAB PRACTICAL EXAM

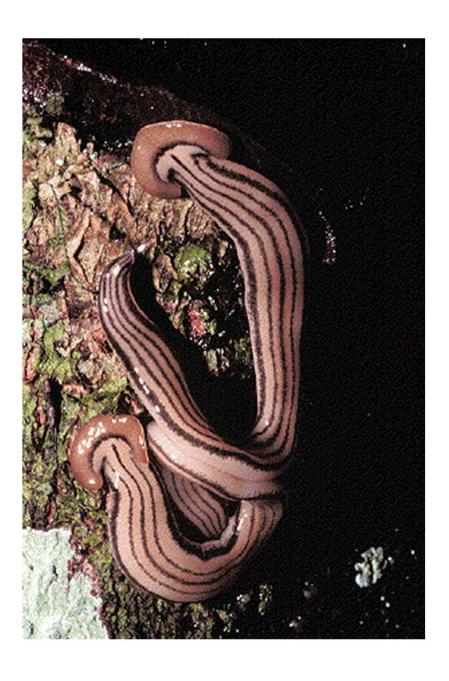
Don't forget to register your iClicker at the Bio 112 website

Don't forget the Phylogenetic Collection Lab

Exam 2: Monday 4/5 (info in Animals 3 handout)

- Last names A G in McCormack Cafe
- Last names H Z here (1 bonus point for going to correct place!)

Planarian



planarian, continued

eating - scavenging: food taker into pharynx (mouth/anus) Brian White Ph.D. @ 2011

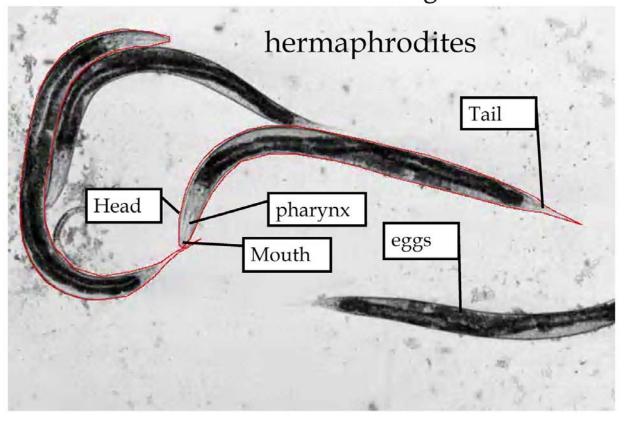
eating- scavenging: food taker into pharynx (mouth/anus)

* not at 'head"

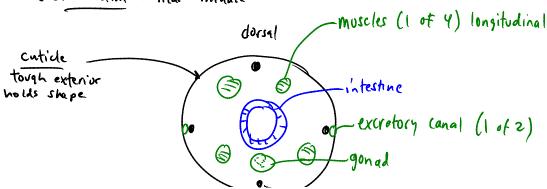
motion - some crawl by cilia, some by muscle contraction excretory - unique specialized "flame cells" collect liquid waste & excrete through porcs in epidermis

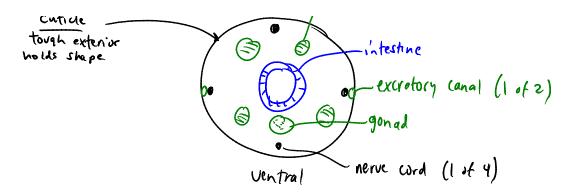
reproduction: sexual of mostly; fertilization by mating asexual: extensive regeneration & budding

Nematode Caenorhabditis elegans



Caenachablitis elegans phylum nematoda (round worms) ecdysozoa
other members of note: Trichinella spiralis causes trichinosis
size: ~ lmm long habitat: soil eats bacteria
respiration & circulation - diffusion (small & thin so ok)
excretion - unique system of canals
cross section - near middle





Nervous - ring around pharynx : 4 longitudinal fibers

muth

pharynx

genital porce (for mating)

movement - alternate contraction of longitudinal muscles on each side of undulation of some mutants go in circles)

Beproduction: Sexual, q, of mating (self-fertile of also)

B transfers sperm to q on of general pore : eggs are layed

* no asexual

fertilized

Squid



squid Colifo pealis

phylum mollusca (other members: bivalues, gastropads)

lopho trocho zoa

habitat: salt water eat small fish, etc.

reproductia: sexual q of mating/no asexual

respiration-muscular mantle pumps ItzO over gills e out siphon

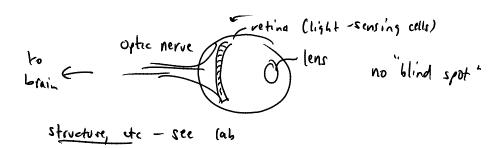
- also propels squid

circulatory system - closed (blood always in vessel)

3 hearts = 1 main t 2 gill hearts (1 per gill)

- no red blood cells: Oz-carrying molecules dissolved in blood

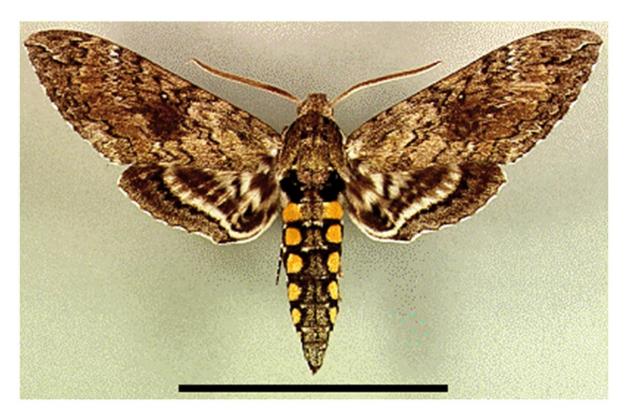
nervous system - complex with brain é eyes



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Tobacco hornworm moth





Manduca sexta tobacco hornworm moth campbells phylum arthropoda other relativer

- chelicerates: Spiders, mites, horse shoe crabs Brian White Ph.D. @



- Crustaugns: Crabs, lobsters, barnacles