

### Annelid worms



Single Phylum (**Annelida**) with about 15,000 species  
 Majority **marine**, but most familiar are fresh and terrestrial  
 First appearance of true **segmentation** or **metamerism**  
 Coelom also segmented with **septa**  
 Presence of **setae** for locomotion

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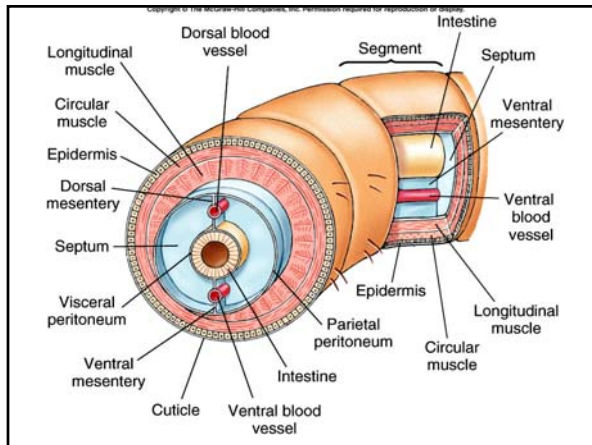
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### Annelid taxa

#### Class Polychaeta

- Largest class (10,000 spp)
- Mostly small, variable morphologies
- Complex head
- Paired appendages called **parapodia**
- Sedentary (**tubicolous**) or errant lifestyles



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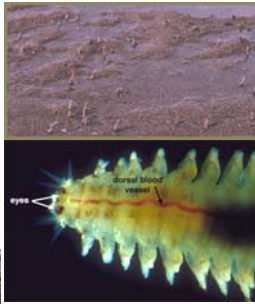
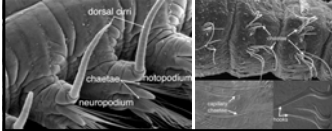
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**Annelid taxa**

**Polychaete Form and Function**

- Parapodia for locomotion and respiration, also contain **cirri** and **setae**
- Lifestyle tied to food habits
- Excretion with pair of **nephridia** and pores in each metamere



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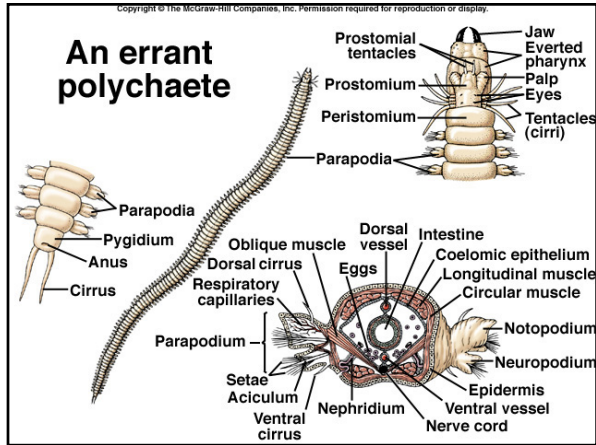
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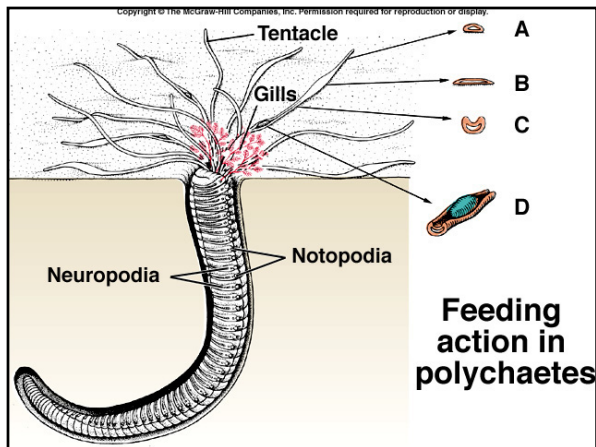
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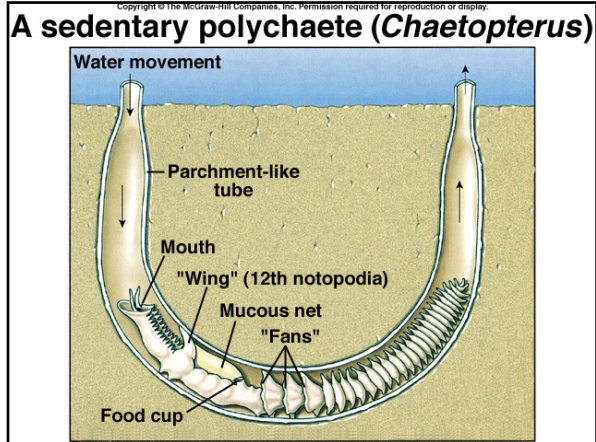
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### Annelid taxa

**Class Oligochaeta**

- Many terrestrial and freshwater, includes earthworms
- Most have **setae**, earthworms with 4 pairs per segment
- Feed on decayed organic matter using **gizzard**
- Circulation through **aortic arches**
- Gas exchange across skin, no gills

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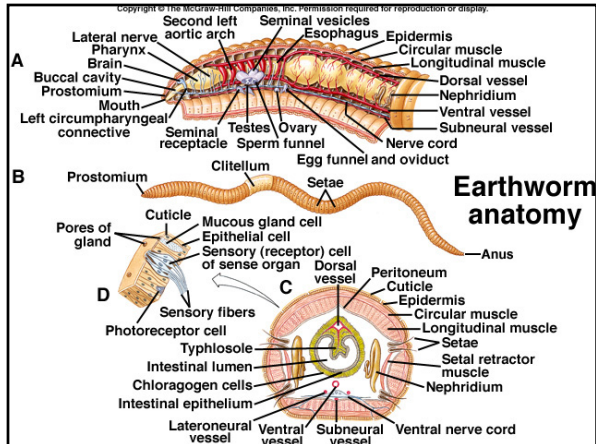
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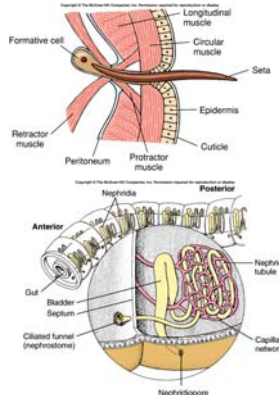
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### Annelid taxa

#### Class Oligochaeta

- Excretion with nephridia
- **Giant axons** in ventral nerve cord allow some rapid movement
- No eyes, but sense organs on body surface and near mouth
- Monoecious
- Have **clitellum**, used in reproduction




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### Annelid taxa

#### Class Hirudinea

- Mostly freshwater, lack **setae**
- Many are carnivores with a **proboscis**
- **Fluid feeders** with suckers for attachment
- True bloodsuckers with cutting jaws
- Two brains and sense organs called **sensillae** in epidermis




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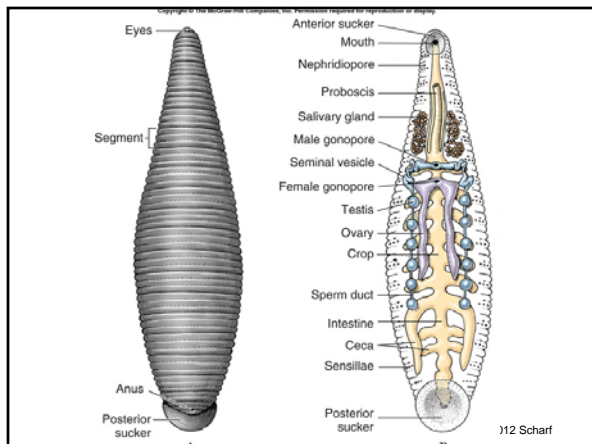
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