

Lecture #15 – An Insect's Life & Other Ecdysozoans

I. Hexapoda (continued)

D. Groups of Insects to Know

1. Odonata - Dragonflies and damselflies.
2. Orthoptera - Grasshoppers, crickets, and katydids
3. Coleoptera - Beetles
4. Hymenoptera - Ants, bees, and wasps.
5. Diptera - Flies
6. Lepidoptera - Butterflies and moths

II. Before the Arthropods (other Ecdysozoans)

A. Evolutionary Relationships within Ecdysozoa

1. Synapomorphic characters
 - a. Exoskeleton with **cuticle**
 - b. **Appendages for locomotion**
 - c. **Chitin** deposited in exoskeleton

B. Tardigrada - "Water-bears" (see page 231-232)

C. Onychophora - "Velvet-worms" (see page 231)

D. Nematoda - Roundworms (see pages 222-229)

1. General characteristics
 - a. Free-living, Symbiotic, and Parasitic forms
2. General morphology
3. Parasitic forms in North America
 - a. Intestinal roundworm
 - b. Hookworm
 - c. *Trichinella* & trichinosis
 - d. Pinworms

Reading: Chapter 13 – pages 271-273.

Reading: Chapter 12 – page 222-229; 231-233.

Questions: Page 233 – 1, 2, 3, 4, 5, 6, 9, 11, and 12.