

Lecture #7 – Platyhelminthes (The Flatworms)

I. Bilateral Animals and Their Great Divergence

A. Bilateral Animals

1. **Cephalization** (p. 58)
2. Three tissue layers (= germ layers)

B. Protostomes vs. Deuterostomes

1. Location of **Nerve System**
2. **Blastopore**
3. Patterns of Cleavage (p. 62, fig. 3.8)

II. Protostome Divisions

A. Ecdysozoa (subject of Exam 2 block)

1. Nematoda through Arthropoda

B. Lophotrochozoa

1. Platyhelminthes
2. Mollusca (lecture 8)
3. Annelida (lecture 9)

III. Platyhelminthes (The Flatworms)

A. "Turbellaria"

B. Trematoda– Digenea are internal parasitic (**endoparasitic**) flukes

1. *Clonorchis* & *Schistosomiasis*

C. Monogenea– external parasitic (**ectoparasitic**) flukes

D. Cestoda– tapeworms

Reading: Chapter 8 – pages 145-158; 161-163

Questions: Page 160 – 1, 2, 3, 5, 8, 9, 10, 11, 12, 18, and 19.

