

Flatworms

Flatworms (phylum Platyhelminthes) are the simplest animals with bilateral symmetry. True to their name, these worms are ribbonlike and range from about 1 mm to about 20 m (about 65 ft) in length. Most flatworms have a gastrovascular cavity with a single opening. There are about 20,000 species of flatworms living in marine, freshwater, and damp terrestrial habitats (Figure 17.14).

The gastrovascular cavity of free-living flatworms called planarians is highly branched, providing an extensive surface area for the absorption of nutrients. When the animal feeds, a muscular tube projects through the mouth and sucks food in. Planarians live on the undersurfaces of rocks in freshwater ponds and streams.

Parasitic flatworms include blood flukes called schistosomes, which are a major health problem in the tropics. These worms have suckers that attach to the inside of the blood vessels near the human host's intestines. Infection by these flatworms causes a long-lasting disease called schistosomiasis,



FISH TAPEWORM LARVAE ARE FOUND IN SPECIES THAT LIVE OR BREED IN FRESH WATER.

with such symptoms as severe abdominal pain, anemia, and dysentery. Although schistosomes are not found in the United States, more than 200 million people around the world are infected by these parasites each year.

Tapeworms parasitize many vertebrates, including people. Most tapeworms have a very long, ribbonlike body with repeated parts. There is no mouth and no gastrovascular cavity. The head of a tapeworm is equipped with suckers and hooks that lock the worms to the intestinal lining of the host—a grossly effective example of structure fitting function. Behind its partially digested food in the intestines of its host, the tapeworm simply absorbs nutrients across its body surface. Behind the head is a long ribbon of units that are little more than sacs of sex organs. At the back of the worm, mature units containing thousands of eggs break off and leave the host's body with the feces. People can become infected with tapeworms by eating undercooked beef, pork, or fish containing tapeworm larvae. The larvae are microscopic, but the adults can reach lengths of 2 m (6.5 ft) in the intestine. Such large tapeworms can cause intestinal blockage

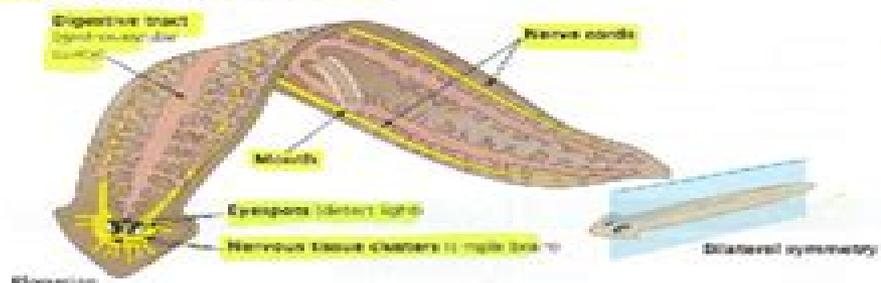
and rob enough nutrients from the host to cause nutritional deficiencies. Fortunately, an orally administered drug can kill the adult worms. **▶**

CHECKPOINT

Flatworms are the simplest animals to display a body plan that is _____.

ANSWER: Bilateral symmetry

▶ Figure 17.14 Flatworm diversity.



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