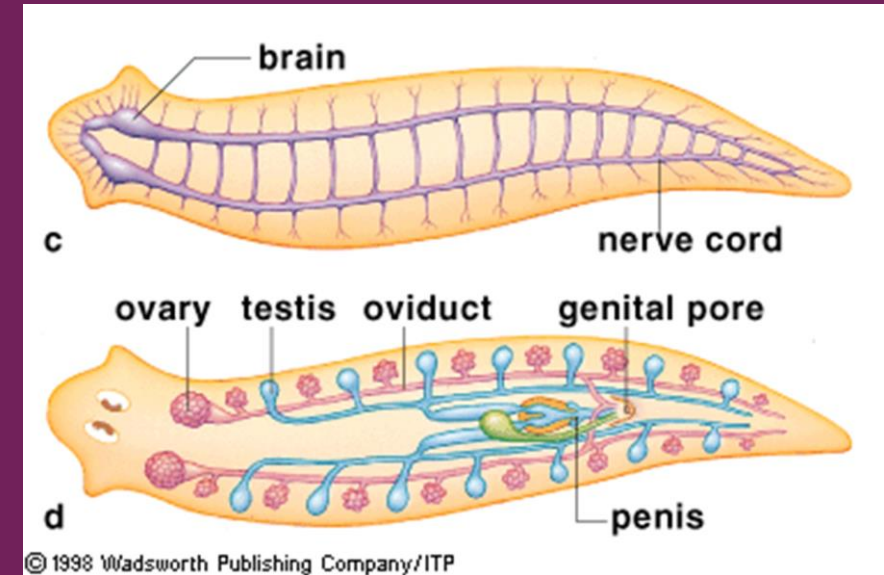


REPRODUCTION

- Free living
 - Most are Hermaphrodites that reproduce sexually
 - Have both male and female reproductive organs
 - Eggs are laid in clusters and hatch in a few weeks
 - Asexually reproduce
 - Fission
 - Split in two
 - Each half grows new parts to become a new organism
- Parasitic
 - More complex
 - Both asexual and sexual



GROUPS OF FLATWORMS

- The three main groups of flatworms are
 - Turbellarians
 - Flukes
 - Tapeworms
- Most turbellarians are free-living.
- Most other flatworm species are parasites.

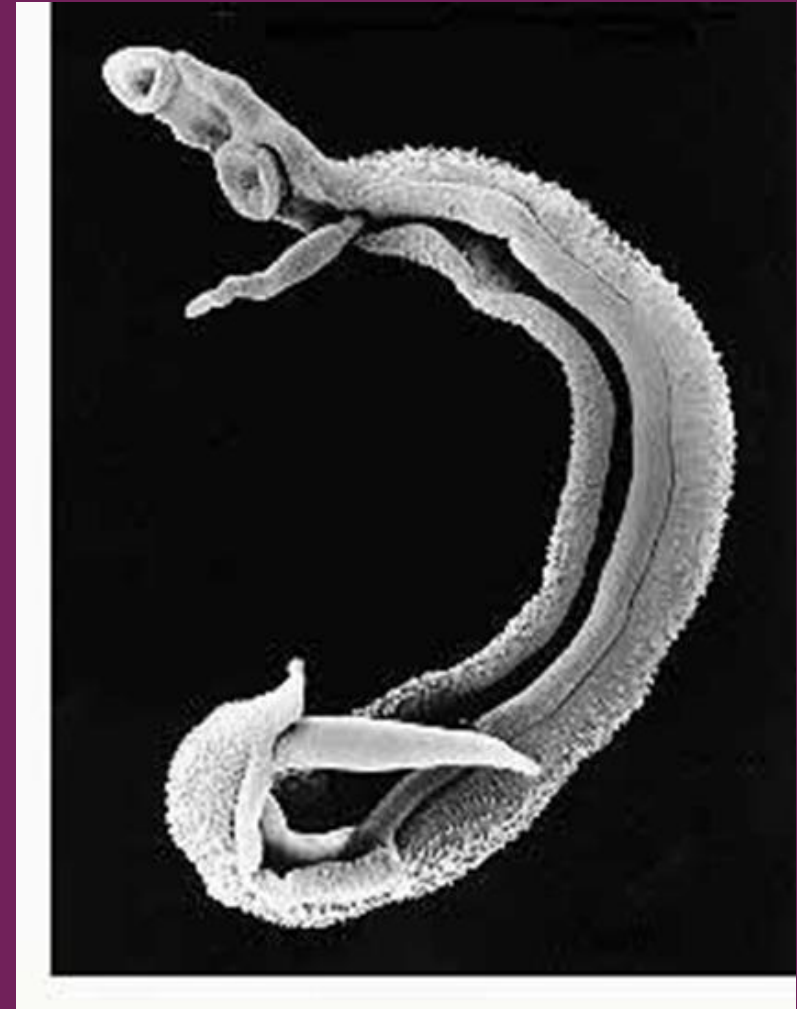
TURBELLARIANS

- Class Turbellaria
- Vary in colour, form and size
- Free living
- Marine and fresh water
- Bottom dwellers
- Most species live in the sand or mud under stones and shells.
- Planarians
 - Freshwater worms



FLUKES

- Class Trematoda
 - Parasitic flatworm
- Most infect internal organs of host
- Some infect externally
 - Mouth, gills, skin

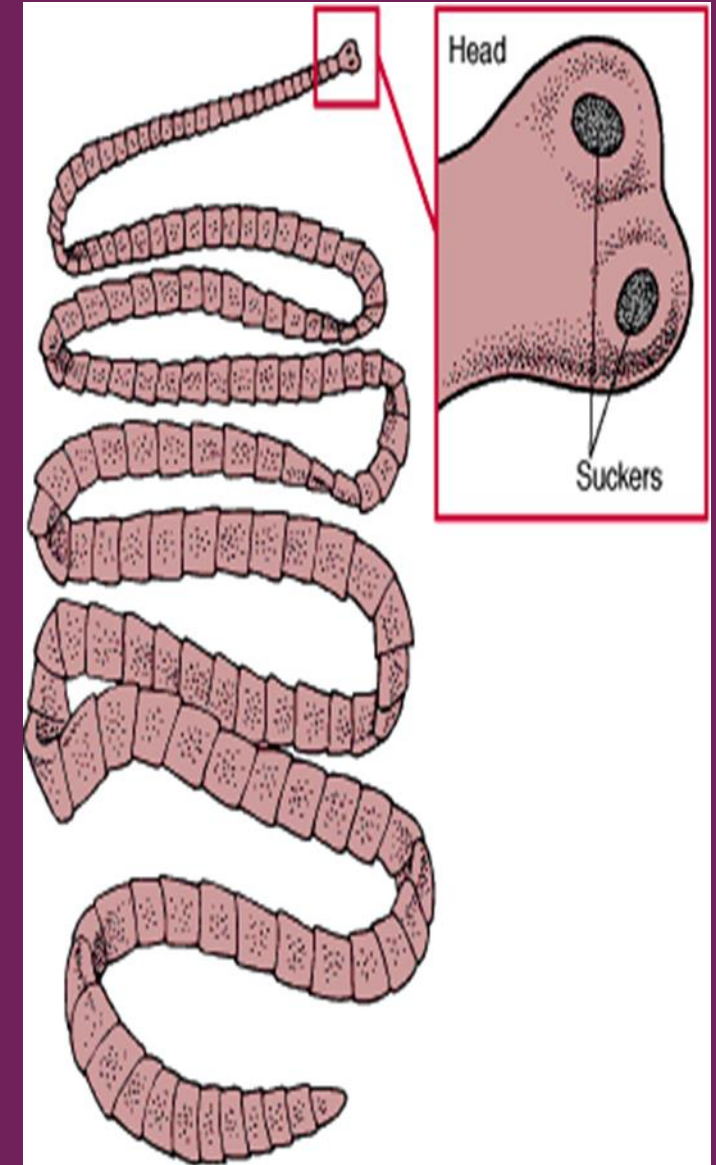


LIFE CYCLE OF A BLOOD FLUKE

- Lives in multiple hosts
- Primary host is human
- Reproduces sexually

TAPEWORMS

- Class Cestoda
- Long flat parasitic worms
- Live in intestines of host
- No digestive tract
 - Food in intestine has already been digested
 - Food absorbed through body walls
 - Tapeworm removed from dog

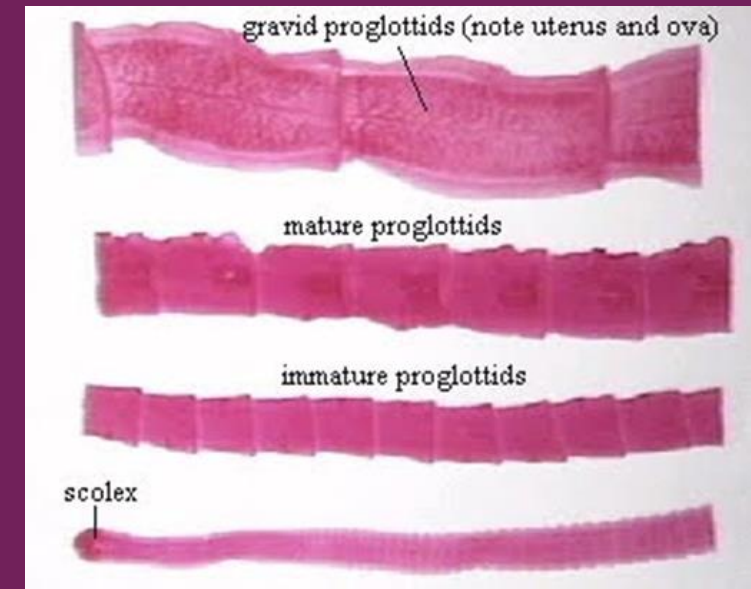


STRUCTURE

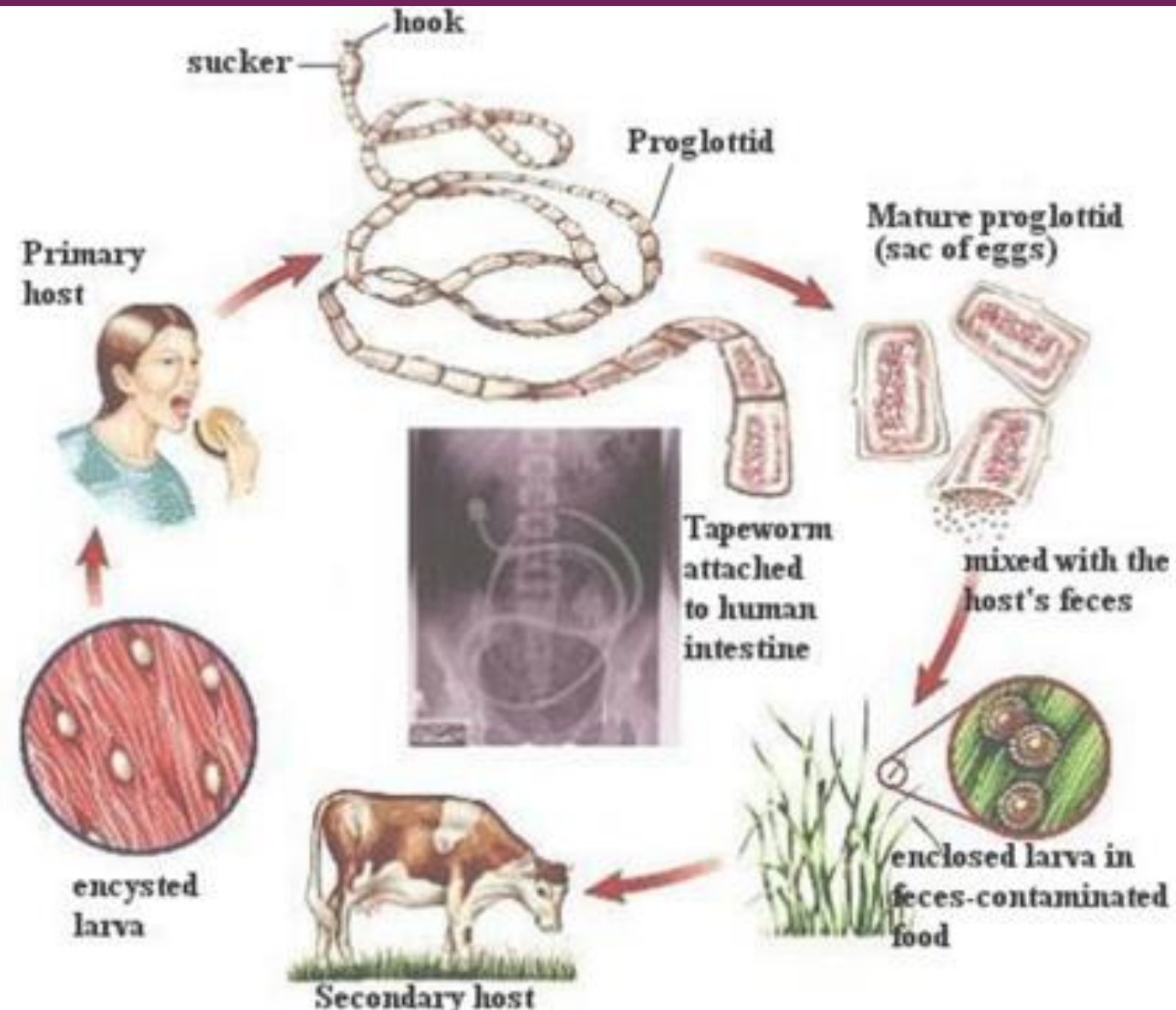
- Structure
 - Scolex
 - Contains suckers and hooks
 - Used to attach to intestine wall of host to absorb nutrients



- Proglottids
 - Behind scolex
 - Makes up most of body
 - Mature proglottids contain both male and female reproductive organs
 - a section of the tapeworm body Contains male and female reproductive organs
 - Able to self- or cross-fertilize
 - The Proglottids at the end of the body break off and pass out in feces of host
 - Each Proglottids contains many fertilized eggs



LIFE CYCLE OF A TAPEWORM



FAD DIETS IN THE 1900'S

