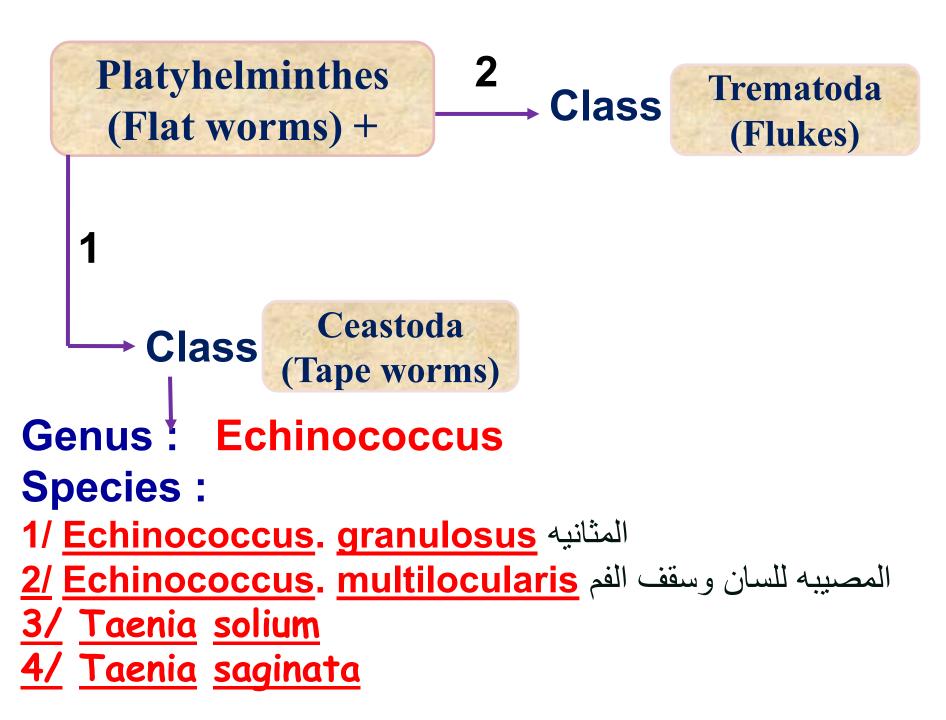
Al-Mustaqbal University college Department of pharmacy



PARASITOLOGY

Lab: 5

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General Characters

- Tape shaped.
- Adult worm composed of:
 - a. Rounded scolex with appendages for attachment (e.g. Suckers ماصات or hooked کلاب or stella).
 - **b.** Neck (region of growth).
 - c. Strobillum (composed of 3- 4000 segments [proglottide]).
- **Length varies between 3mm-10m.**



- All cestodes are hermaphrodite
 (Each segment contains male & female reproductive system).
- No body cavity.
- No digestive tract.
- No vascular system.
- 1- Habitat:
 - a. Adult worms live in small intestine of their definitive hosts.
 - b. Larval stage found in intermediate hosts tissues.
- Eggs are diagnostic stage
 (Spherical, with shell embryonic membranes for embryo protection the embryo [onchosphere] carries 6 elongated hooks [hexacanth])

- Replication is either by <u>self-fertilization</u> or by <u>cross</u> <u>fertilization</u>.
- Usually the presence of adult worms in the host intestine does not produce serious symptoms, but severe and sometimes fatal symptoms may occur due to presence of the larval stage in the host tissues

(e.g. Tainea solium & Echinoccus granulosus)

Taenia solium & Taenia saginata

	Taenia solium	Taenia saginata
Disease:	 Taeniasis 	 Taeniasis
	 Cysticercosis 	
Habitat:	•Adult:	•Adult:
	Small intestine of	Small intestine of
	man	man
	• Larva:	• Larva:
	As cysticercus in	As cysticercus in
	pigs muscles or in human tissues.	beef muscles.

	Taenia solium	Taenia saginata
Definitive host:	Human	
Intermediate host:	Pigs (human is also a dead end intermediate host)	Cattle, sheep & various herbivores

Taenia saginata Taenia solium In case of Taeniasis: Diagnostic * Eggs and active gravid segments in stage: stool. Eggs Gravid Segments *Appears Spherical in stool Hexacanth perianal regions underclothing embryo *Disintegrate to Radially striated liberate egg embryophore