



PRAKTIKUM PARASITOLOGI 1

Sodikin Kurniawan

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PERTEMUAN 8

P. westermani, C. sinensis, Schistosoma sp.

Lecture prepared by Sodikin Kurniawan, Muhammadiyah University of Semarang



Paragonimus Westermani

Oriental lung fluke

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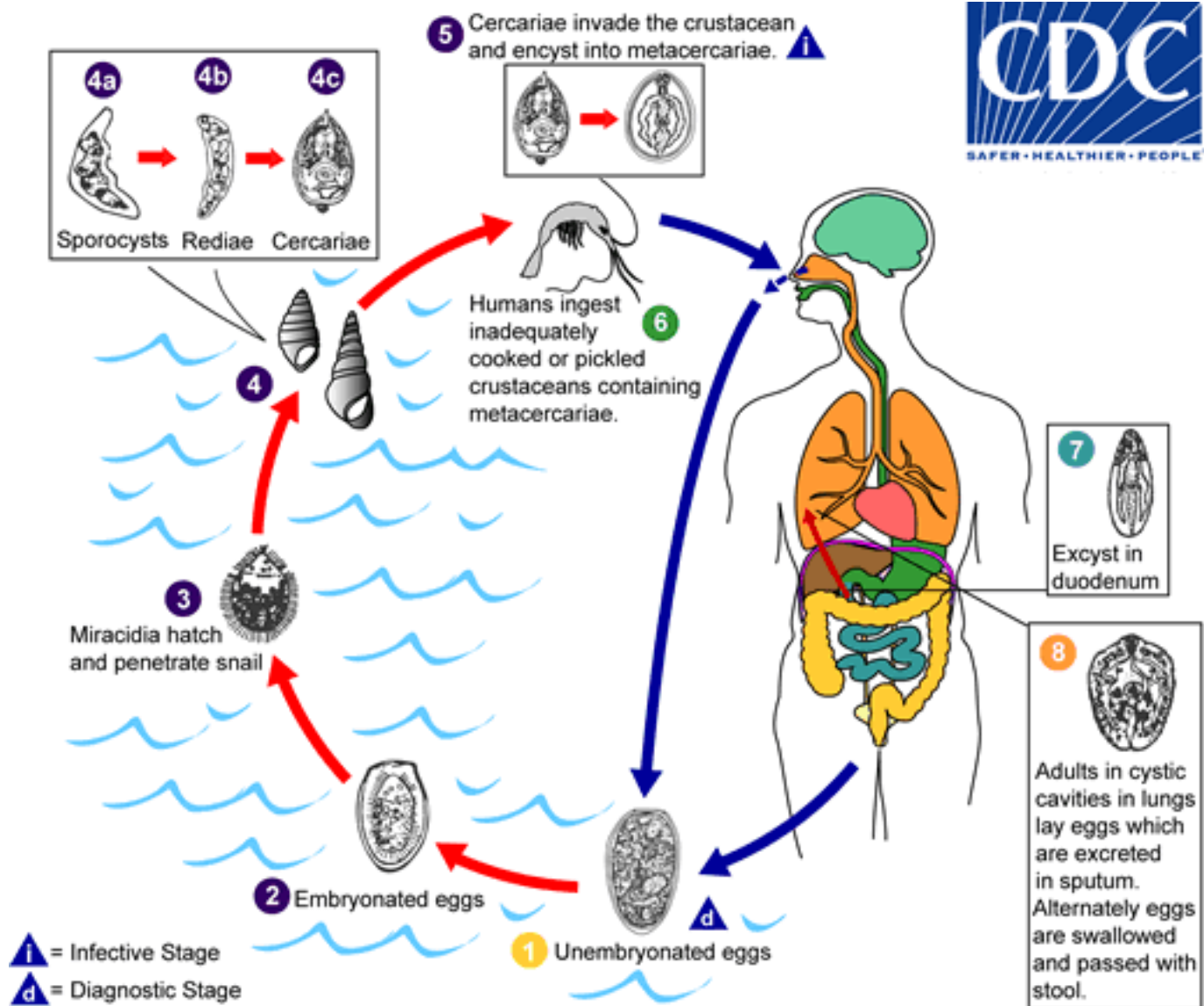
Paragonimus Westermani



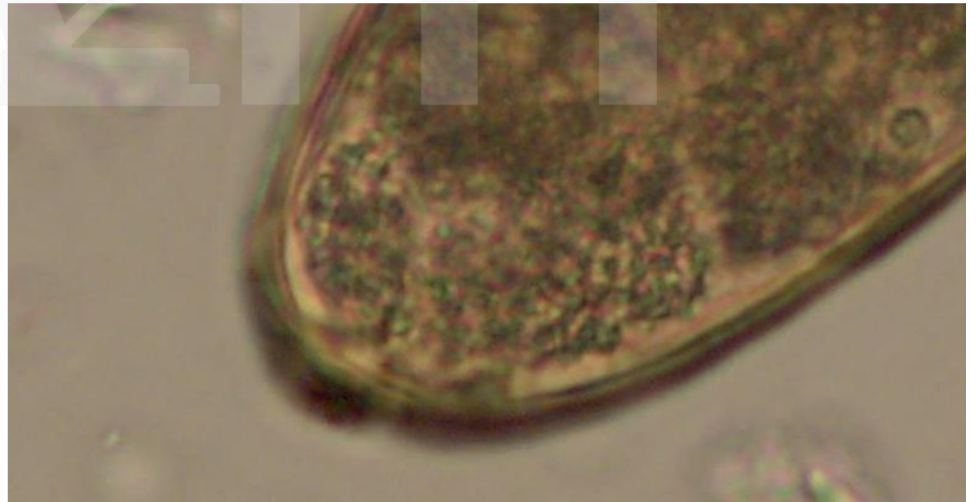
Taxonomy

- *Phylum Platyhelminthes* Gegenbaur, 1859 – flatworms
- *Class Trematoda* Rudolphi, 1808 – flukes
- *Subclass Digenea*
- *Order Plagiorchiida*
- *Suborder Troglotremata* Schell, 1982
- *Superfamily Troglotrematoidea*
- *Family Paragonimidae*
- *Genus Paragonimus* Braun, 1899

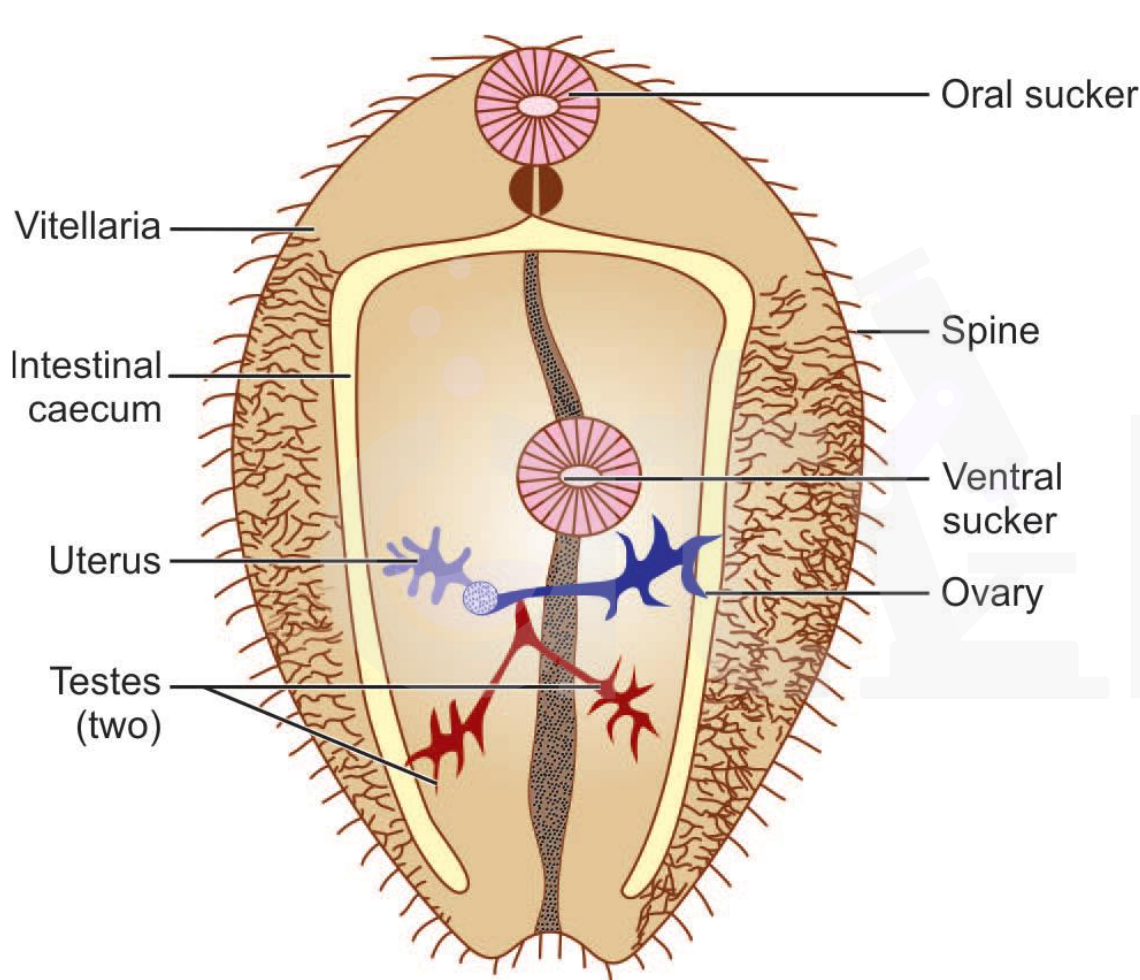
Paragonimus Westermani – Oriental lung fluke



Paragonimus sp.- Egg



Paragonimus Westermani - Morphology





Clonorchis sinensis

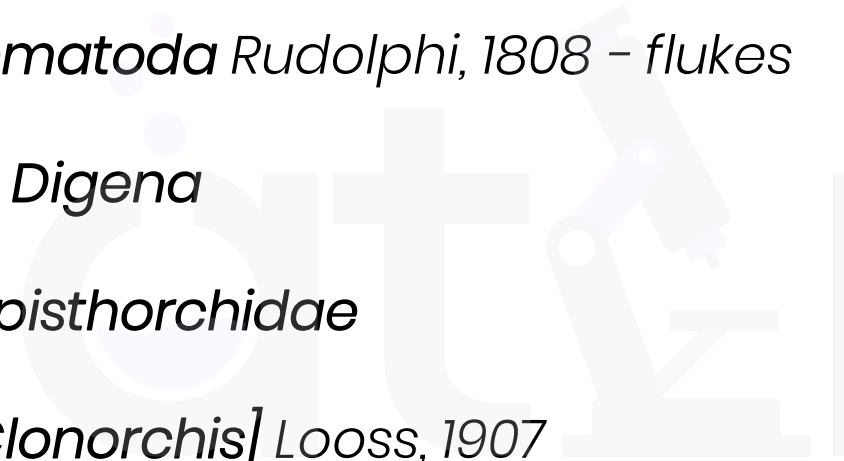
The Chinese liver fluke, Oriental liver fluke

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Clonorchis sinensis



Taxonomy

- *Phylum Platyhelminthes* Gegenbaur, 1859
 - *Class Trematoda* Rudolphi, 1808 – flukes
 - *Subclass Digena*
 - *Family Opisthorchidae*
 - *Genus [Clonorchis]* Looss, 1907
- 

Clonorchis sinensis



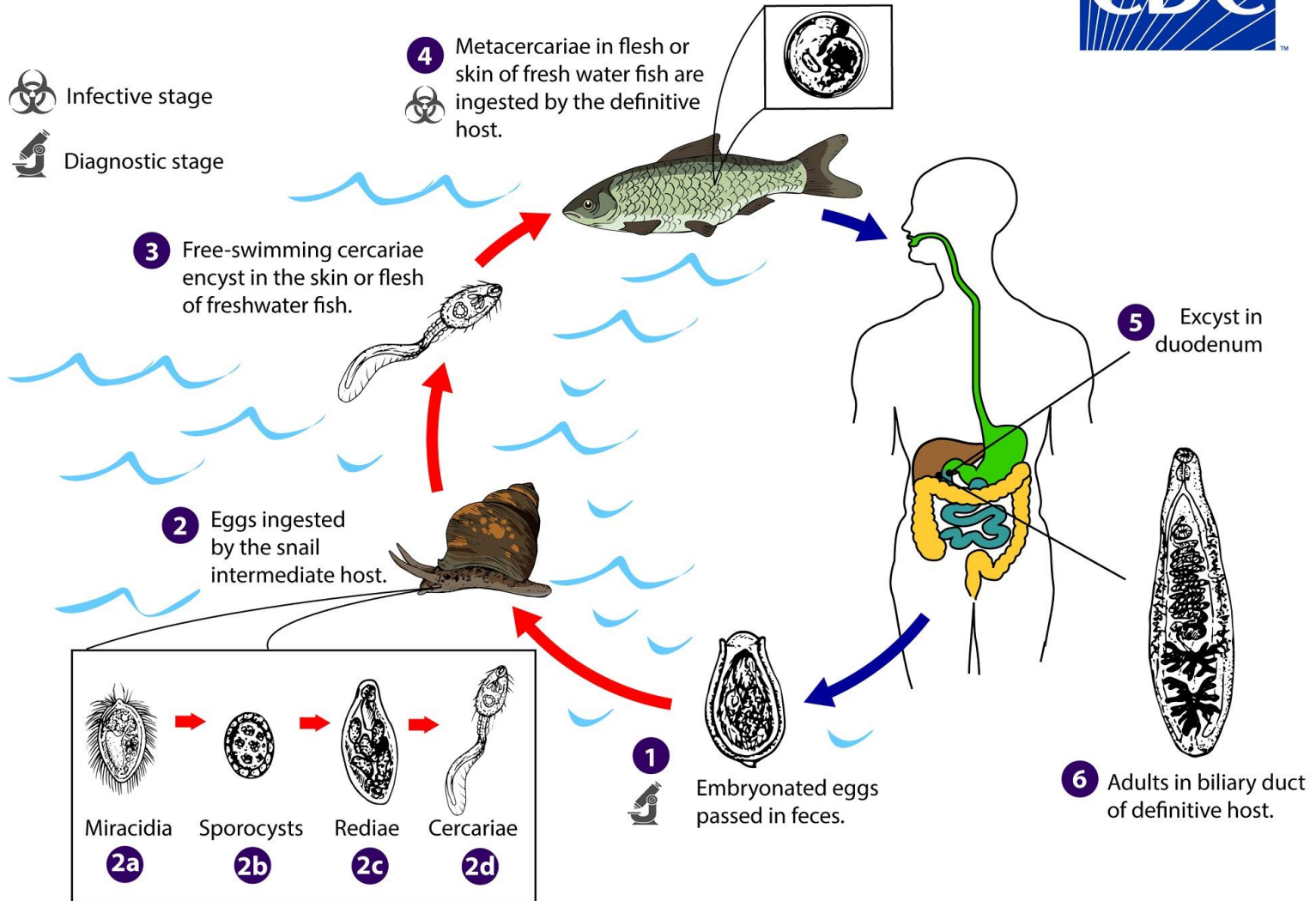
Clonorchis sinensis



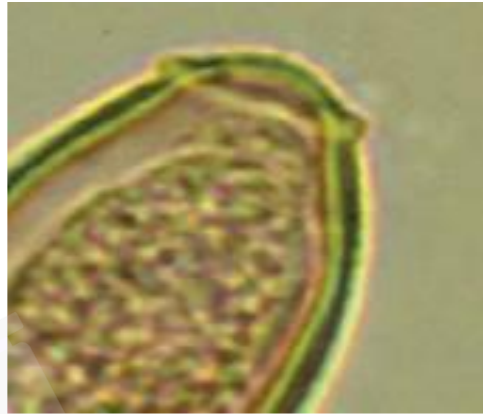
Infective stage



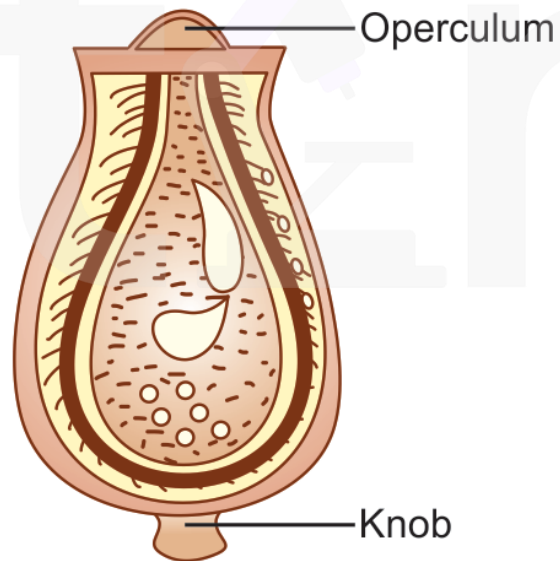
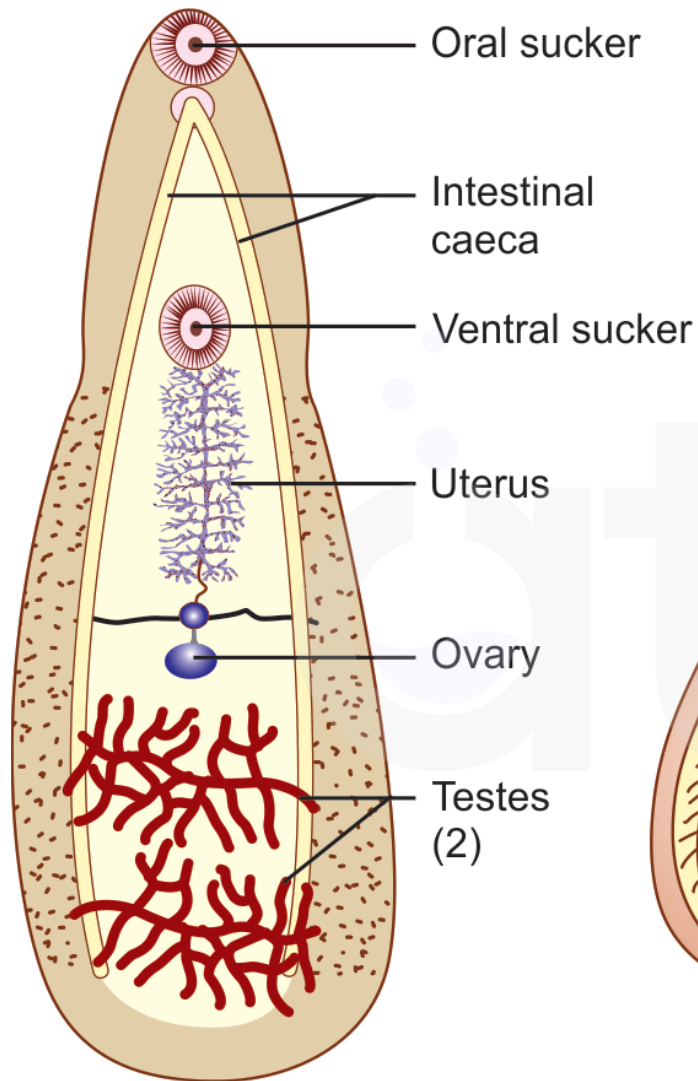
Diagnostic stage



Clonorchis sinensis Egg



Clonorchis sinensis - Morphology





Schistosoma sp.

S. mansoni, S. haematobium, S. intercalatum, S. japonicum, S. mekongi

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Schistosoma sp.

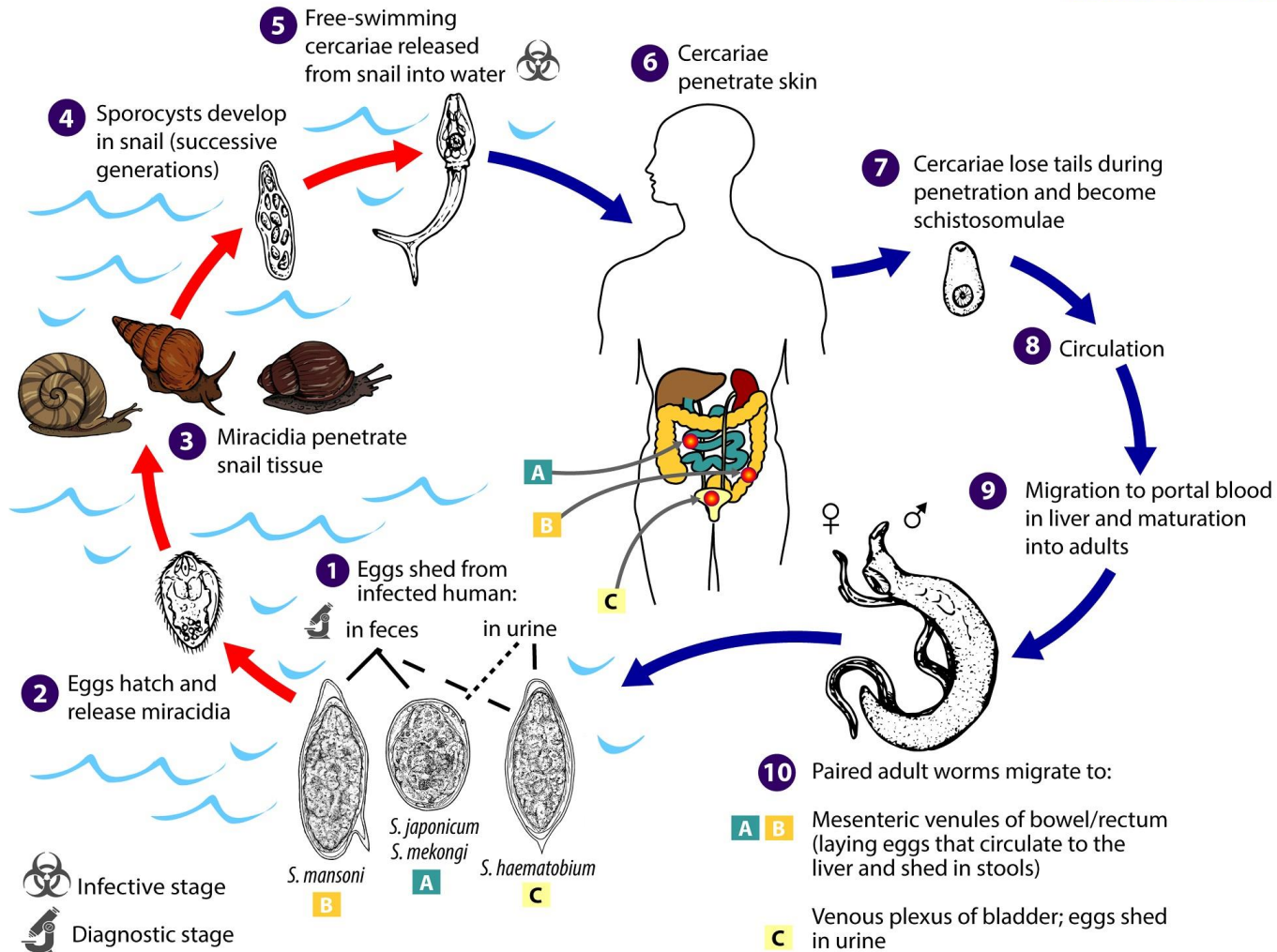
Taxonomy

- *Phylum Platyhelminthes* Gegenbaur, 1859 – flatworms
- *Class Trematoda* Rudolphi, 1808 – flukes
- *Subclass Digenea*
- *Order Strigeidida*
- *Suborder Strigeata*
- *Superfamily Schistosomatoidea*
- *Family Schistosomatidae* Looss, 1899
- *Genus Schistosoma* Weinland, 1858

Schistosoma sp.



Schistosoma spp.



Schistosoma sp. Egg



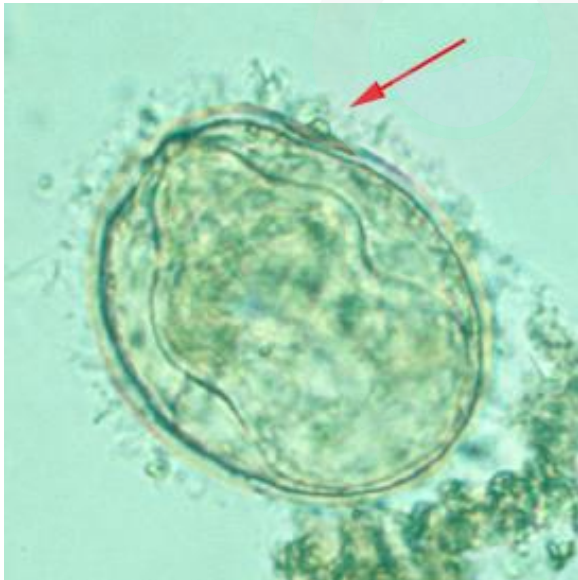
S. japonicum

S. mekongi

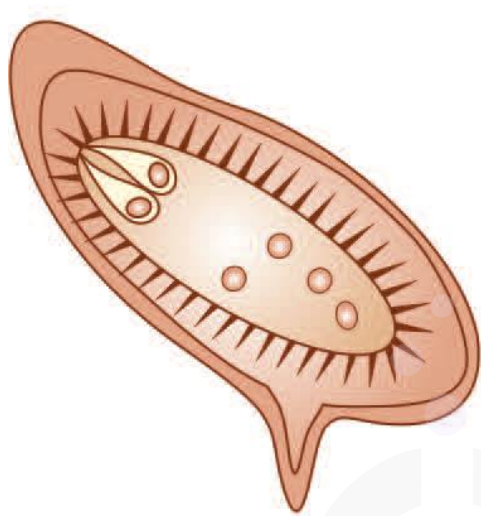
S. haematobium

S. Intercalatum

S. mansoni



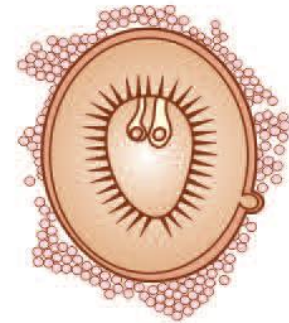
Schistosoma sp. - Illustration



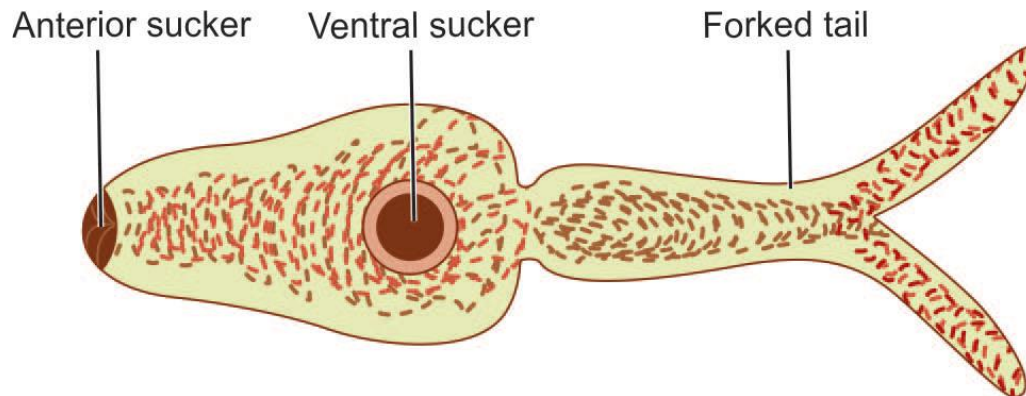
S. mansoni
Ova with a lateral spine
(obtained from stool)



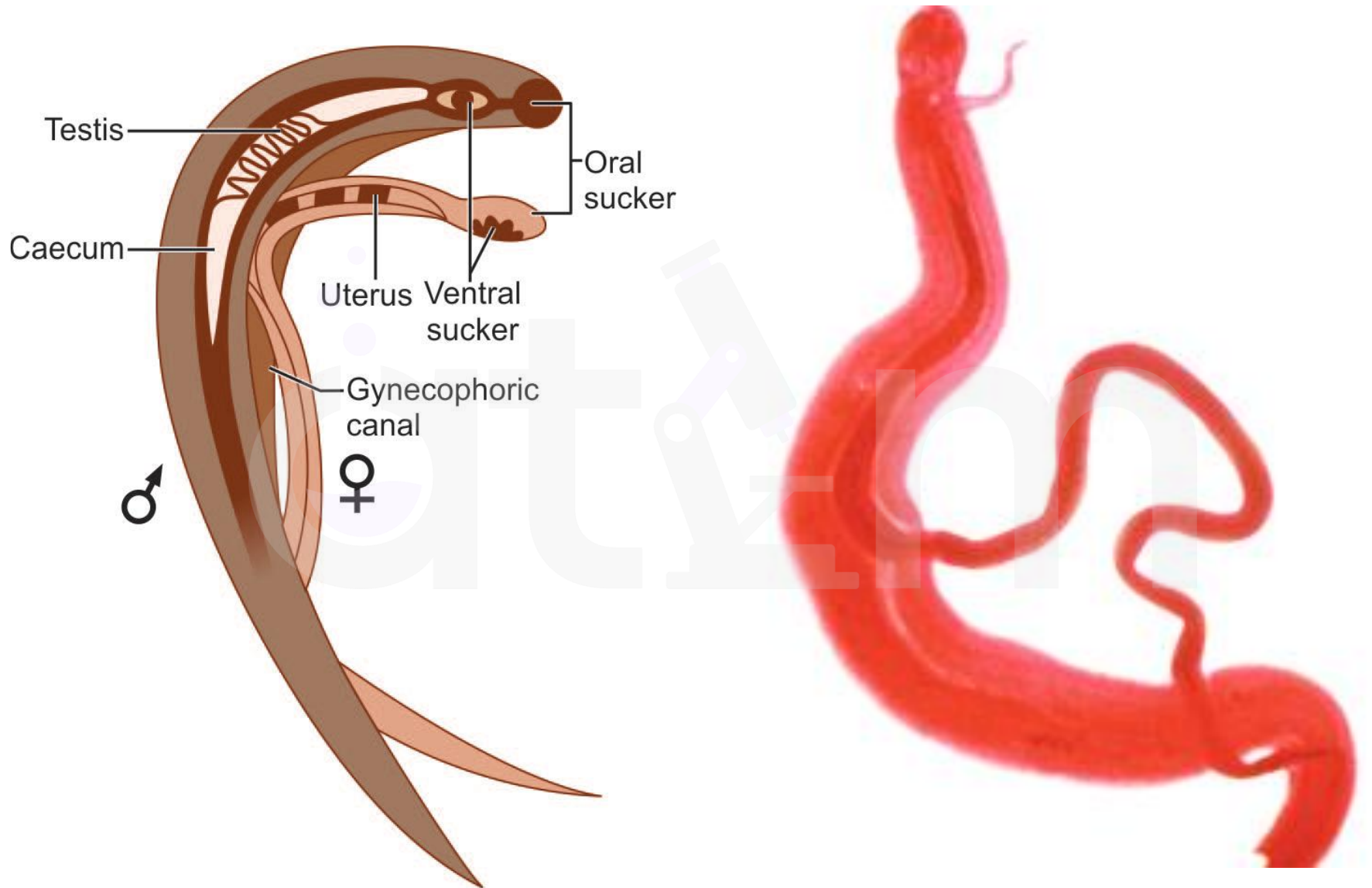
S. haematobium
Ova with a terminal spine
(obtained from urine)



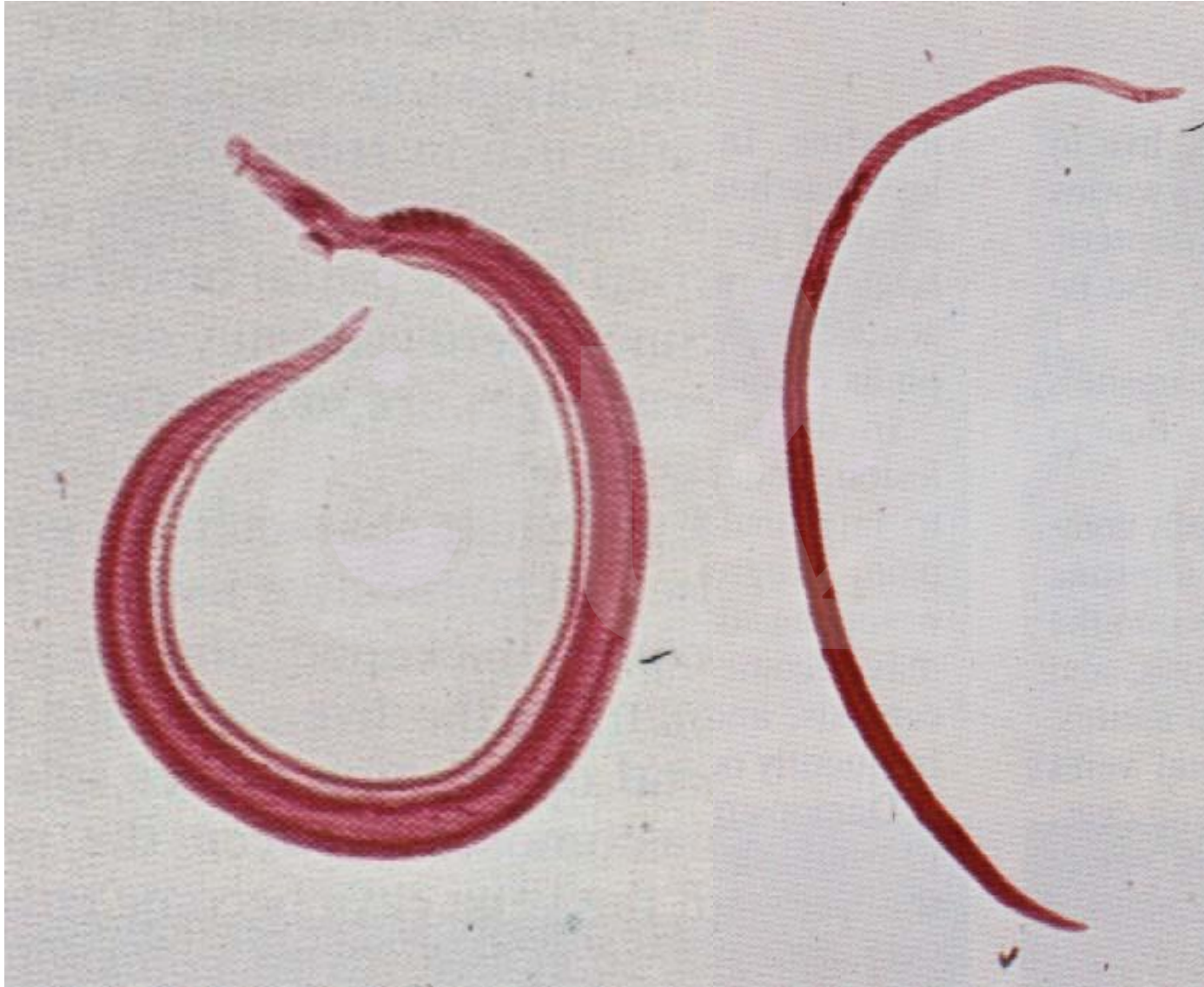
S. japonicum
Ova with a lateral knob
(obtained from stool)
Note: The characteristic surround
of tissue particles



Schistosoma sp. - Morphology



***Schistosoma sp.* – Male – Female**



Schistosoma japonicum



Schistosoma mansoni





TERIMA KASIH

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