

Puspa Shrestha

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Puspa Shrestha

Date: 2077/09/14

EXPERIMENT NO: 1

NAME OF EXPERIMENT: TO STUDY THE MUSEUM SPECIMEN

Paramecium caudatum

Plasmodium vivax

COMMENTS ON PARAMECIUM

1. Paramecium caudatum fig. (a) is a unicellular microscopic organism found in fresh water pools, ditches, rivers, lakes, canal, ponds rich in decayed organic materials.
2. The organism looks like the sole of a slipper or shoe, hence it is commonly called slipper animalcule.
3. Body is covered by a double-layered thin pellicle.
4. Locomotion is performed by means of lashing movement of cilia.
5. Nutrition is holozoic.
6. Presence of mega-nucleus and micronucleus for different functions.
7. Asexual reproduction by transverse fission and sexual reproduction by conjugation, autogamy, hemixis, cytogamy, etc.

TO STUDY THE MUSEUM SPECIMEN

Roll No. 11
Date: 2077/09/14

Classification

Phylum — Protozoa
Class — Ciliata
Genus — Paramecium
Species — caudatum

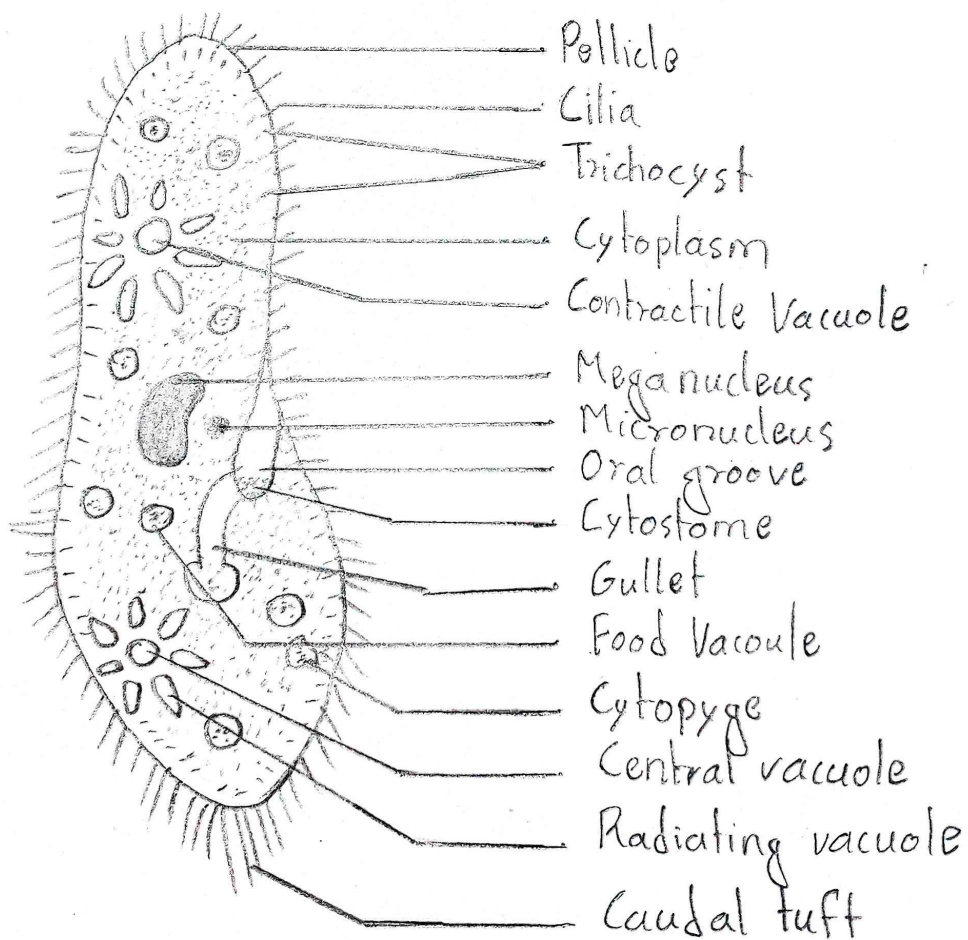


fig. Paramecium caudatum

2077/09/14
Rajin

COMMENTS ON SIGNET RING STAGE IN PLASMODIUM

1. Signet ring stage (fig. b) is seen during erythrocytic schizogony. It begins when the red blood corpuscles are attacked by merozoites.
2. In red blood corpuscles, merozoites take a form of disc-shaped structure with a single large nucleus.
3. This stage is called trophozoite stage which grows at the expense of haemoglobin of blood.
4. A vacuole appears soon in trophozoite stage. As the vacuole increases in size gradually, the nucleus is pushed towards the periphery.
5. The trophozoite having a large vacuole and a characteristic nucleus at the periphery is called signet-ring stage.
6. Usually a solitary ring stage is present inside the same corpuscles.

TO STUDY MUSEUM SPECIMEN

Roll No. : 11
Date : 20/7/09/24

Classification

Phylum — Protozoa
Class — Sporozoa
Genus — Plasmodium
Species — vivax

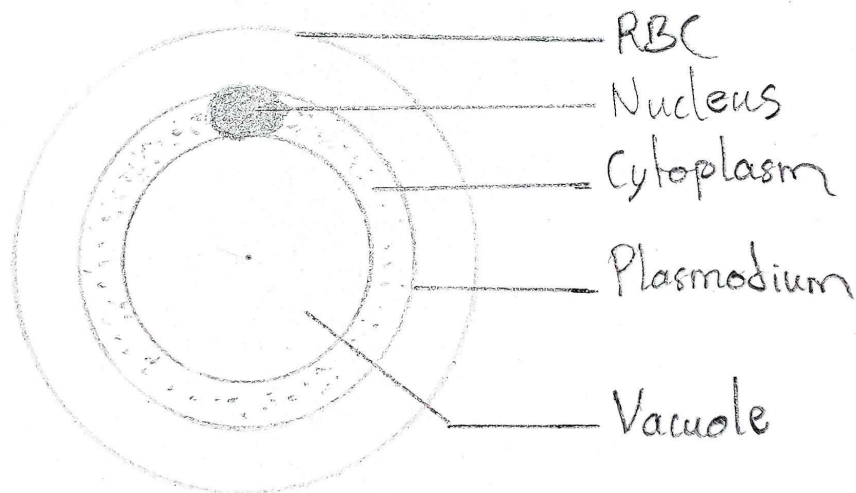


Fig. Signet ring stage of Plasmodium vivax

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20/7/09/24