

# Software for Diagnosis of Protozoan Parasitic Diseases

This multimedia based software is having information regarding morphology, lifecycle, pathogenesis, diagnosis and treatment of different protozoan parasites affecting domestic animals. Different immunological techniques for indirect detection of protozoan parasitic infection have also been incorporated. The software is having different type of databases for easy retrieval of different parasites based on host, organ, location etc. Another database for retrieving scientific name of different animals also included in this software. Visual basic language is used for development of this software. This software is compatible with windows platform only.

The software is helpful for academicians, student and technician engaged in the field of parasitological research.

**Mastigo**

**PHYLUM Details**  
comastig

**Trypanozoa**

- T. theileri (Cattle)
- T. melophagum (Sheep)
- T. lewisi (Rat)
- T. duttoni (Man)
- T. evansi (Rabbit)
- T. cruzi (Man, Dog, Cat)
- T. rangeli (Dog)
- T. vivax (Bird)
- T. congolense (Cattle, Sheep, Horse)
- T. simoiphon (Cattle, sheep, Horse)
- T. simae (Pig)
- T. brucei (Domestic animals)
- T. rhodesiense (Man)
- T. gambiense (Man)
- T. evansi (Cattle, Camel, Equine, Dog)
- T. equinum (Equine)
- T. equiperdum (Equine)

**monadida**

- TricHo
- Monoc
- Retort
- Hexan

**Trypanozoma**   **Leishmania**   **Giardia**   **Hexamita**

**Trypanozoma theileri**

**Morphology:**

- Relatively large species (50-70 µm in length).
- The posterior end is long and pointed and kinetoplast lies some distance from the posterior end.
- Underlying membrane is well developed.
- Free flagellum is well defined.

**Life Cycle:**

- This species is transmitted cyclically by tabanid flies (Tabanus & Simulid species).
- Infection in bovine occur by contamination.
- In bovine, both trypanozoa & spore like forms occur.
- Multiplication takes place in the lymph nodes & liver organs.

**Pathogenesis:**

- In ordinary condition, it is a non-pathogenic form.
- It may appear in a parasitic form following splenectomy or concurrent infections with pathogenic agents.
- In some cases, the infectious parasite in nature producing anthrax like disease.
- It is also associated with turning sickness in Uganda with depressed milk production & abortion in cattle.

**Species level**

**Species Level Detail Description**

Apicomplexa Species

Sercomastigophora Species

<< Back to Main Menu

*Click the left side buttons to see the classification table and in the table click on the genus under that genus. If you click on the species buttons that will show you all the information of that species.*

**Computer Programme on Protozoan Parasitic Diseases in Animal**

Plasmodium   Morphology   Pathogenesis   Immunology

Sarcocystis   Life Cycle

Toxoplasma

Leucocytozoon

Besnoitia

Coccidia   Babesia

Close

**Form1**

Name of the Animal

Organ affected

Type of Parasites [ Trematode / Cestode / Nematode/Protozoa/ Acanthocephala.]

Name of the Parasite

Upgrade Database   Close   Go

There are six different types of query available for you

- Using only Name of the Animal
- Using only Type of Parasites
- Using only Organ affected
- Using only name of the Parasite
- Using both Types of Parasites and Organ affected
- Using both name of the Animal and Type of Parasite
- Using both name of the Animal and organ affected

Help