**MCB2010L –Microbiology Lab**

**Exercise 12: Protists, Fungi, and Helminths**

Organism Classification – Be able to identify and know taxonomy; SPELLING COUNTS!

Remember: Domain, Kingdom, Phylum, *Genus*, *species,* common name*,* and disease caused. In case of fungi, know sexual and asexual spores.

(Genus and species italicized, species is not capitalized)

* Domain Eukarya
  + Kingdom Protista
    - Subkingdom Protozoa – heterotrophic protists
      * Phylum Sarcomastigophora – amoebas and flagellates
        + *Entamoeba histolytica* – amoeba; amoebic dysentery
        + *Trypanosoma gambiense* – flagellate; African Sleeping Sickness
        + *Trichomonas vaginalis* - vaginitis
      * Phylum Apicomplexa – sporozoans
        + *Plasmodium viva* – intracellular; malaria
  + Kingdom Animalia
    - Phylum Platyhelminthes – flatworms
      * + *Taenia pisiformis -* tapeworm
        + *Fasciola hepatica –* Sheep’s liver fluke
        + *Clinorchis sinensis –* Chinese liver fluke
    - Phylum Nematoda – roundworms
      * + *Enterobius vermicularis -* pinworm
        + *Trichinella spiralis –* trichinosis
        + *Necator americanus -* hookworm
        + *Ascaris lumbricoides*
  + Kingdom Fungi
    - Division (Phylum) Zygomycota – black bread molds
      * + *Rhizopus stolonifera*
    - Division (Phylum) Ascomycota – sac fungi and yeast
      * + *Peziza*
        + *Aspergillus*
        + *Penicillium*
        + *Saccharomyces*
    - Division (Phylum) Basidiomycota – club fungi
      * + *Coprinus*