**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*