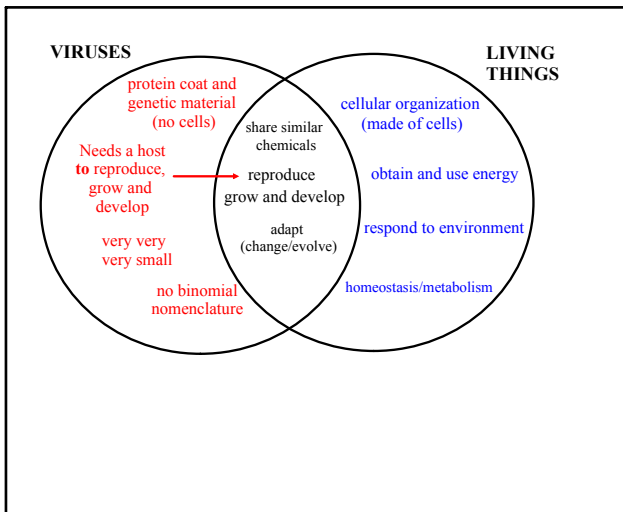


CHARACTERISTICS OF LIVING THINGS

- Cellular organization
- atoms compounds
elements → molecules → organelles → cells
- obtain and use energy
- respond
- grow and develop
- reproduce
- adapt



Edward Jenner

1796

Developed first successful vaccine for smallpox with vaccinia virus for cowpox

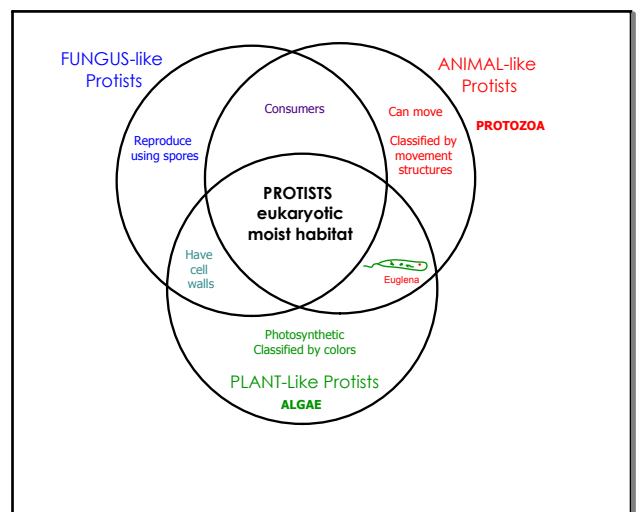
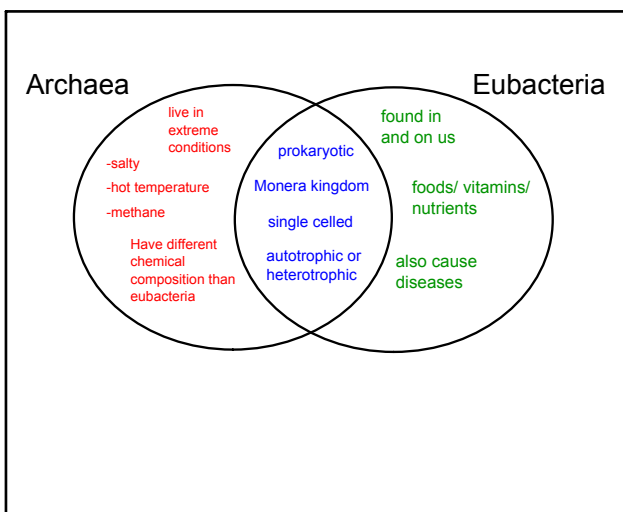
Jonas Salk

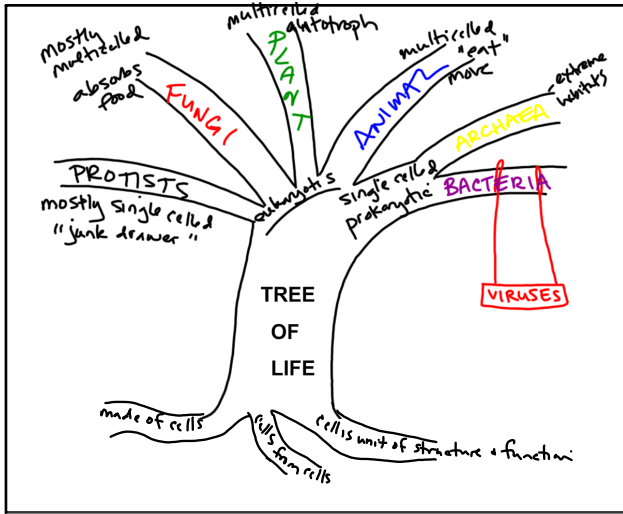
1954

Developed first safe and effective polio vaccine

Alexander Fleming 1929

accidentally discovered penicillin (antibiotics)



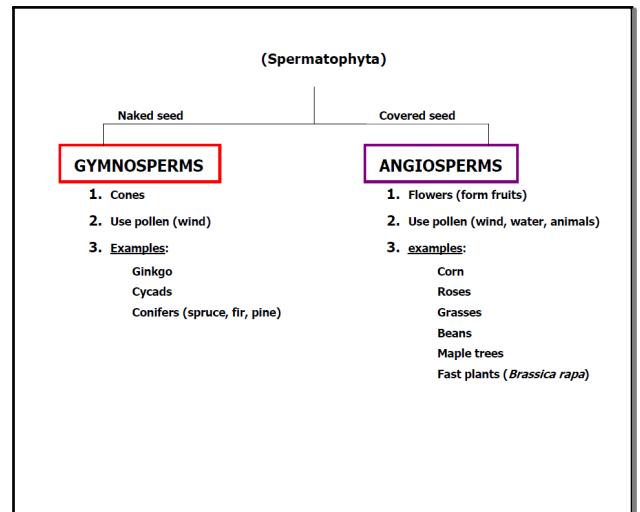
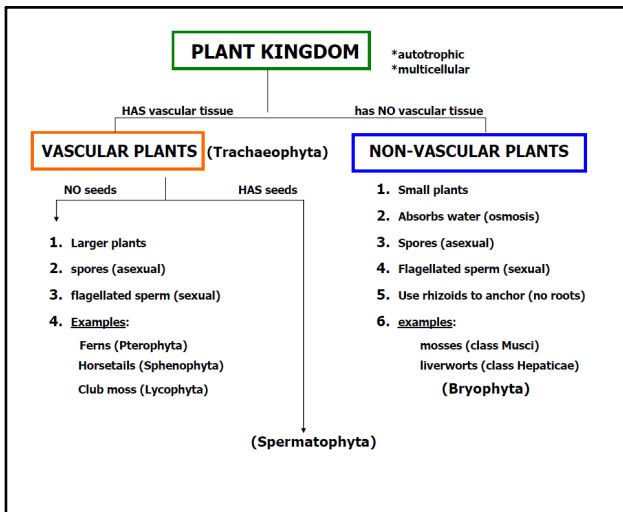


FABULOUS FUNGI FACTS

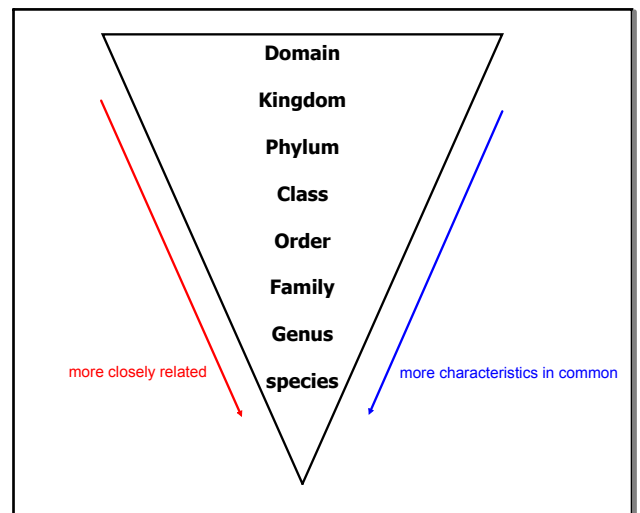
fungus (plural: fungi) = a spore-producing organism with complex cells and no chlorophyll

CHARACTERISTICS OF THE FUNGI KINGDOM:

- eukaryotic
- have cell walls
- heterotrophs (consumers) that ABSORB food
- reproduce with spores
- decomposers
- mostly multicellular
- classified (grouped) by spore structure
- bodies made of HYPHAE (branching threadlike tubes)



- What are all the animals in the world?
- Kingdom Animalia:
- Phylum: PORIFERA (sponges)
 - Phylum: CNIDARIA (jellyfish, corals)
 - Phylum: PLATYHELMINTHES (tapeworms, planaria)
 - Phylum: NEMATODA (roundworms, rotifers)
 - Phylum: ANNELIDA (earthworms, leeches)
 - Phylum: MOLLUSCA:
 - Class: Gastropoda (snails, slugs)
 - Class: Bivalva (clams, oysters)
 - Class: Cephalopoda (octopus, squid)
 - Phylum: ARTHROPODA:
 - Class: Arachnida (spiders, ticks)
 - Class: Insecta (insects)
 - Class: Crustacea (lobsters, shrimp, daphnia)
 - Class: Myriopoda (millepedes, centipedes)
 - Phylum: ECHINODERMATA (starfish, sea urchins)
 - Phylum: CHORDATA: (subphylum: Vertebrata)
 - Class: Agnatha (jawless fish)
 - Class: Chondrichthyes (sharks, rays)
 - Class: Osteichthyes (bony fishes)
 - Class: Amphibia (frogs, toads, salamanders)
 - Class: Reptilia (snakes, turtles, crocodiles)
 - Class: Aves (birds—tweet, tweet)
 - Class: Mammalia (us, cats, bats, rats)
- Remember YOU are an animal!**



Attachments

4 Pathogens Song.mp4