FUNGAL KINGDOM

Chytridiomycota Zygomycota (endomycorrhizae) **Ascomycota Basidiomycota**

Chytridiomycota

· Is a mild pathogen, exists in soil. Has chitin. Will invade into the plant cells and their rhizoid will suck it out.

The three main groups of the fungi kingdom are **Zygomycota**, **Ascomycota** and Basidiomycota. Differentiates in terms of their spores. co.uk

(endomycorrhizae) Glomeromycota are the symbionts.

They are all pathogens but for the most part to Pare omposers, are heterotrophs but feeds on the dead (Saprobes) Are in portant in the terms of CO2 cycling in the atmosphere and ecclosical importance. Descriptions by secreting enzymes to the outside och cell. [Filamentous fundal colony] Breaks down anything, protein, collagen etc. This parents he exoenzymes outside of the cell. As you get broken down, the nutrients will be taken in through the mycelial structure and through the membranes and will be converted to starch or glucose that is required for the fungi to survive. Occurs with all three groups that exist within the fungal kingdom.

Zygomycota

- Known due to its zygospore. An Example of this would be black bread mold (Rhizopus). It grows through the bread and as it collects the nutrients form the bread it forms spores.
- The life cycle that occurs, when zygomycota is growing through some substrate and decomposing, it will form Hyphae and will form 2 mating types. It will grow in between to meet up and fuse. Under ordinary circumstances, the genetic states are haploid (1n). When the fusion process occurs which is known as **cytogamy** (formation of a cytoplasm) you'll get a zygote (2n) diploid form which then undergoes the formation of the complete sporangium structure known as the zygote sporangium.