- They form mycelia/ hyphae
- Largest
- Fungi reproduce by several mechanisms e.g.
- Dimorphic fungi= fungi that don't know if they want to be unicellular or multicellular-e.g. these can grow into mould or yeast depending on environmental stimuli (such as temperature, CO<sub>2</sub>)

E.g. Blastomyces dermatitidis

## **Protozoa**

- Protozoa are chemoheterotrophs
- unicellular
- Some are free living and some are parasites
- Have typical eukaryotic features e.g.
  - Membrane bound organelles
  - Multiple linear chromosomes
  - DNA associated with histones
  - Genes contain introns and exons
  - > 80S ribosomes



- Some divide asexually and others divide sexually:

  They can reproduce asexually

  Binary fission and cell splits into two

  Schize bly Fucleus divides many disertions. s before cell divides, the single cell separates into daughter cells
  - Budding- bud forms and pinches off parent cell
  - Or they can reproduce sexually by fusion of gametes e.g. plasmodium
- Some produce cysts

## <u>Algae</u>

- Are photoautotrophs
- They are oxygenic
- derived from cyanobacteria
- They have different pigmentation
- Have many eukaryotic features; organelles, multiple linear chromosomes, genes have introns and exons, DNA associated with histones, 80S ribosomes
- cellulose cell wall
- unicellular or multicellular
- Live in water e.g. snow, freshwater, marine
- lack organs found in plants such as roots