

Fungi

Mr. Skirbst

Fungi



Kingdom Fungi

Fungus – a plantlike organism
lacking chlorophyll



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Fungus – a plantlike organism
lacking chlorophyll

- They are *heterotrophic*

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Fungus – a plantlike organism
lacking chlorophyll

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(they can't make own food)

3 Characteristics

1. Feeding

3 Characteristics

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2. Structure

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1. Feeding
2. Structure
3. Reproduction

Feeding

- All are *heterotrophs*

Feeding

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(they can't make own food)

Feeding

- All are heterotrophs
- They grow on food & absorb it



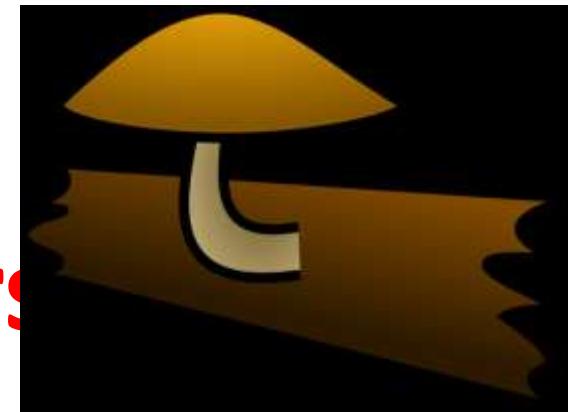
Feeding

- All are heterotrophs
- They grow on food & absorb it
- Some capture prey



Feeding

- All are heterotrophs
- They grow on food & absorb it
- Some capture prey
- **Most are decomposers**



(break down organic material)

Feeding

- Some live symbiotically



Feeding

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(symbiosis – a close relationship)



JUST OUTSIDE THE BOX



Symbiotic relationship trials and tribulations

Feeding

- Some live symbiotically
(symbiosis – a close relationship)

2 kinds:

1- parasitism – one benefits



Feeding

- Some live symbiotically
(symbiosis – a close relationship)

2 kinds:

- 1- parasitism – one benefits
- 2- mutualism – both benefit

Structure

Structure

- Some are unicellular (one cell)



Structure

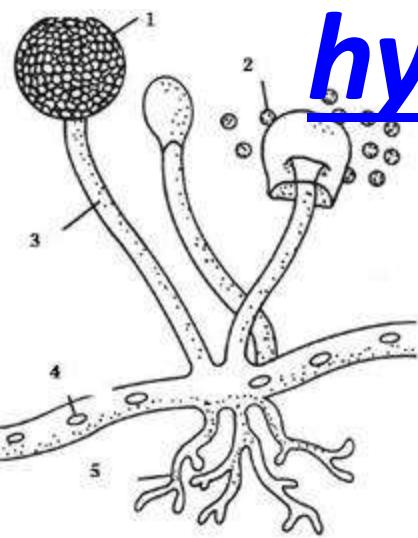
- Some are unicellular (one cell)
- Some are multicellular (many)



MUSHY THE MUSHROOM

Structure

- Some are unicellular (one cell)
- Some are multicellular (many)
- Multicellular fungi are made of **hyphae** (threadlike tubes)



Structure

- Some are unicellular (one cell)
- Some are multicellular (many)
- Multicellular fungi are made of *hyphae* (threadlike tubes)

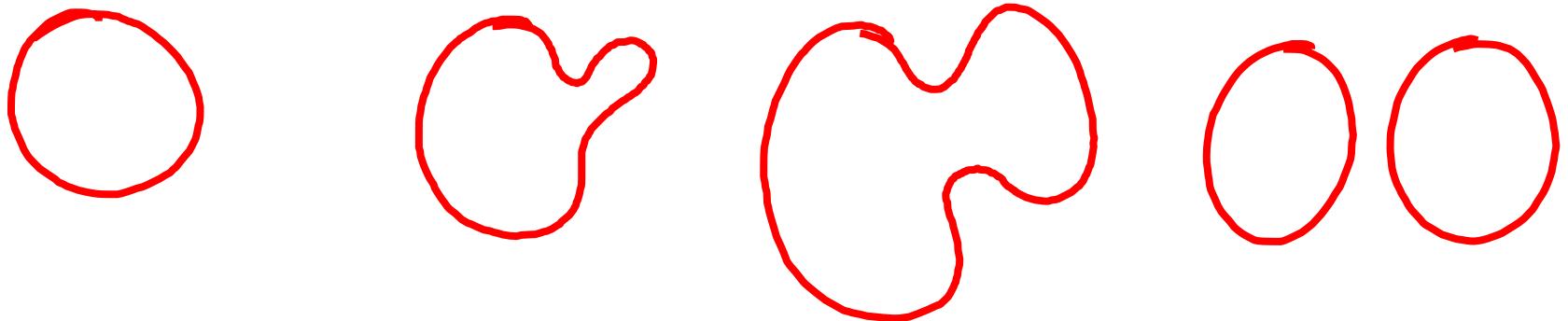
(cells have many nuclei and can grow very quickly - 40m/hr)

Reproduction

2 Types

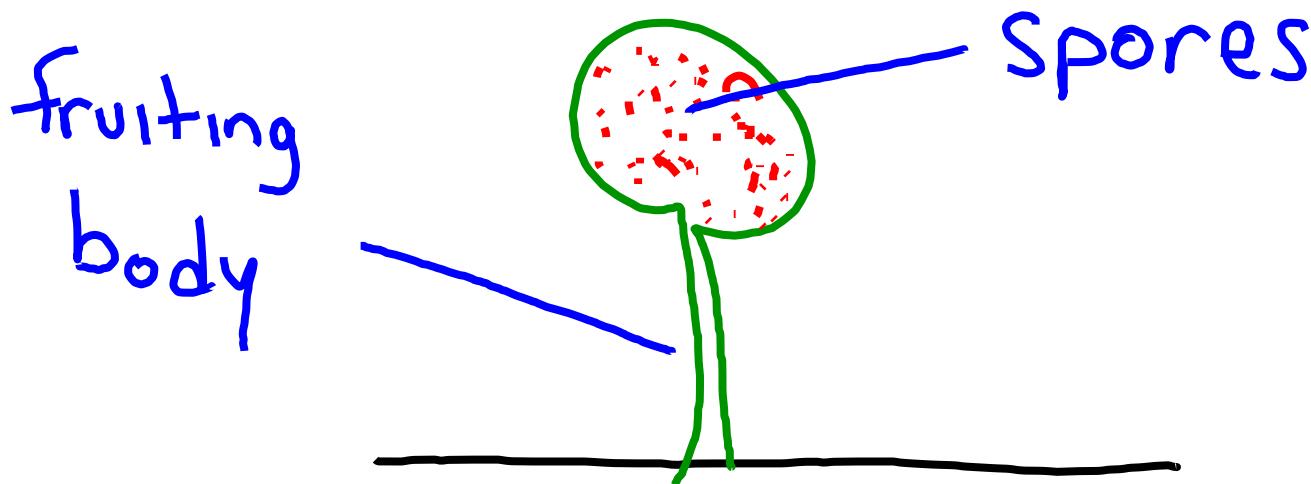
Reproduction

1- By budding (unicellular fungus, like yeast)



Reproduction

2- By spores (multicellular fungus, like mushrooms)



3 Forms of Fungi

1. Mold



3 Forms of Fungi

1. Mold

-“fuzzy” fungi,

often grows on old food

3 Forms of Fungi

2. Mushrooms



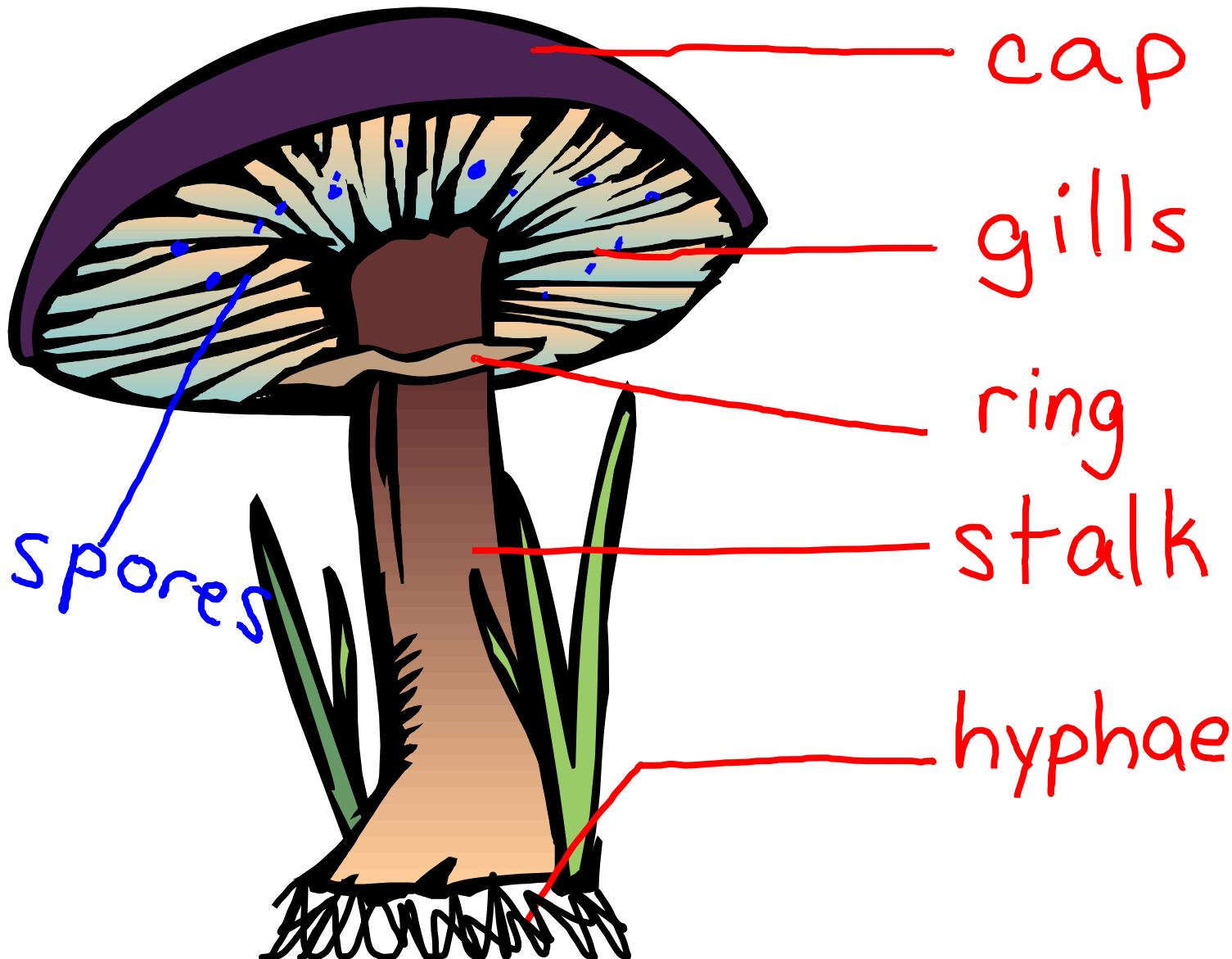
3 Forms of Fungi

2. Mushrooms

- multicellular,

**grows a reproductive
structure**

Mushroom structures



3 Forms of Fungi

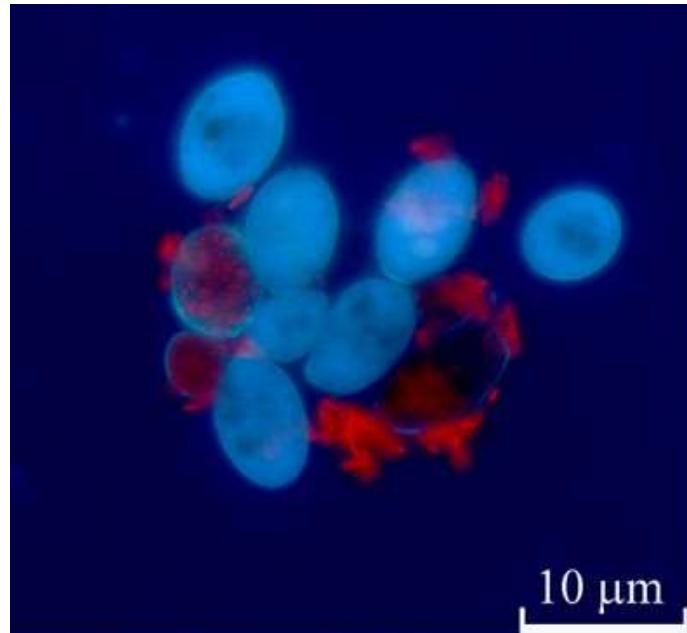
3. Yeast



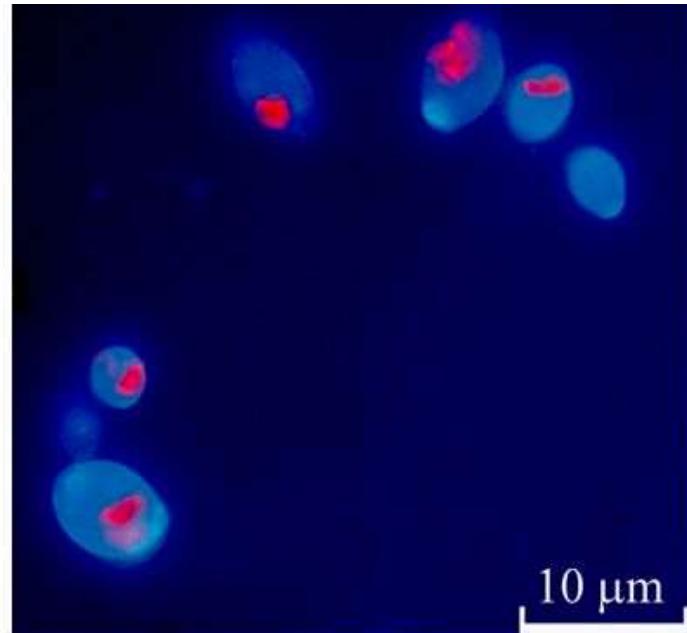
3 Forms of Fungi

3. Yeast

- unicellular



(A)

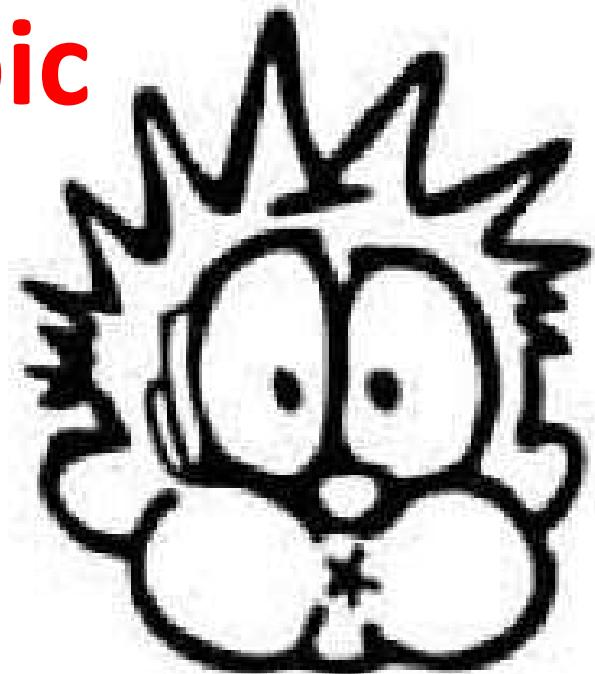


(B)

3 Forms of Fungi

3. Yeast

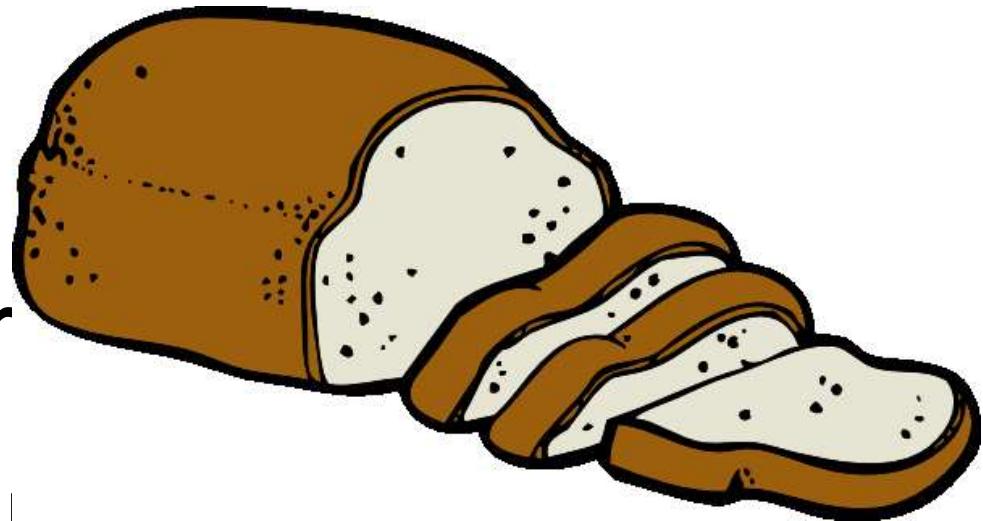
- unicellular
- undergo anaerobic respiration



3 Forms of Fungi

3. Yeast

- unicellular
- undergo ~~aerobic~~ respiration
- used in baking (release CO_2 makes bread rise)



3 Forms of Fungi

3. Yeast

- unicellular
- undergo anaerobic respiration
- used in baking (release CO_2 makes bread rise – **alcohol**)

