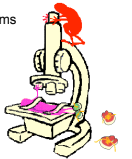



Biology 675

Microorganisms

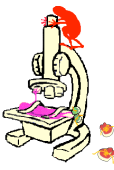


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Microorganisms

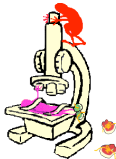


Microorganisms



Naming organisms

- Scientific binomial
- Genus + species
- Latinized
- Worldwide



Writing names

- Escherichia coli*
- E. coli*
 - *E. coli*
- Strains, serovars, biovars
 - *E. coli* O157:H7
 - *Salmonella enterica* Typhimurium


Taxonomy

Living Organisms
Classified by cell type

Taxonomy

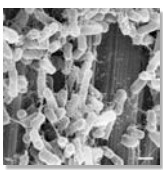
Living Organisms
Classified by cell type

Domains




Microorganisms

- Bacteria



Bacteria

- What morphology are these?



DISINFECTING (hard, non-porous surfaces): Apply full-strength product on the surface and let stand for 10 minutes before wiping. For highly soiled areas, clean before following disinfecting directions.

Mr. Clean kills the household germs *Salmonella choleraesuis*, *Escherichia coli*, and *Proteus mirabilis*, and the viruses *Influenza A* and *Herpes Simplex-type-1* (causes cold sores) in 10 minutes. Effective against Gram-negative bacteria only. Mr. Clean cleans and kills these household germs on the following surfaces:

Kitchens**	Bathrooms	Tough Jobs
Finished Floors, Walls, Appliances, Sinks, Countertops, Garbage Disposals	Toilets, Tubs, Fiberglass, Diaper Pails, Sponges	Garbage Cans, Pet Areas, Dirty Sidings and More!

Fungi

Microorganisms

- Bacteria
- Fungi
- Algae

Algae

- Dinoflagellates
- Diatoms
- Oomycota

Microorganisms

- Bacteria
- Fungi
- Algae
- Protozoa

Protozoa

```

    graph TD
      Eukarya --> Phylum
      Phylum --> Giardia
      Phylum --> Entamoeba
      Phylum --> Plasmodium
      Phylum --> Cryptosporidium
      Phylum --> Cyclospora
      Phylum --> Trypanosoma
  
```

Microorganisms

```

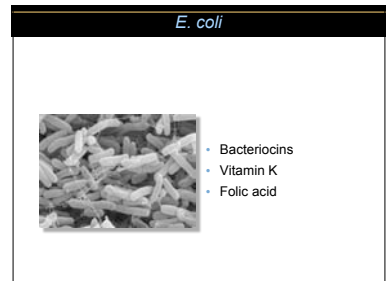
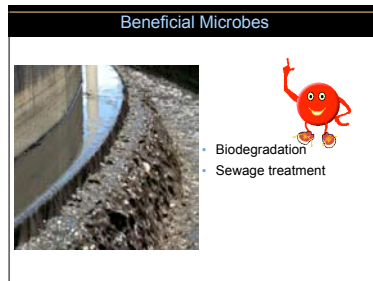
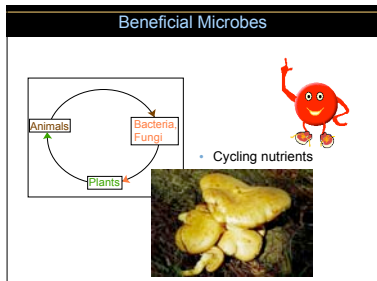
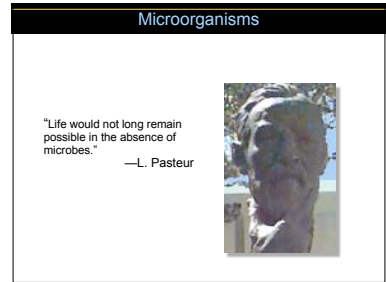
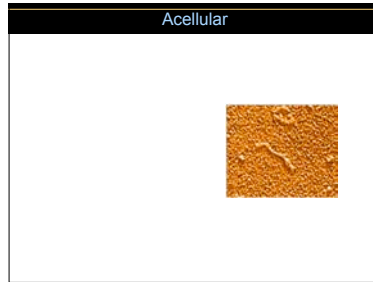
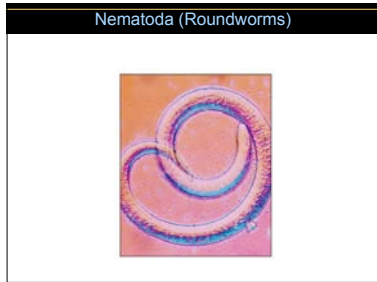
    graph TD
      Eukarya --> Arthropoda
      Eukarya --> Platyhelminthes
      Eukarya --> Nematoda
  
```

Microorganisms

```

    graph TD
      Eukarya --> Fungi
      Eukarya --> Plantae
      Eukarya --> Platyhelminthes
      Eukarya --> Nematoda
      Eukarya --> Homo_sapiens[Homo sapiens]
  
```

Platyhelminthes (Flatworms)



BioBuck

<p>Induction</p> <p><i>Staphylococcus aureus</i> causes disease</p> <p><i>S. aureus</i> is a microbe</p> <p>∴</p>	<p>Deduction</p> <p>Microbes cause disease</p> <p><i>Saccharomyces cerevisiae</i> is a microbe</p> <p>∴</p>
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