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Bacteria Pt 2

Bad Bacteria

- Pathogen: something that causes a disease

Must do 2 things to make you sick

1. invade, attach, multiply
2. Produce toxins to interfere with normal host processes

Example 1

TSS

STDs

Meningitis

Food Poisoning

Botulism

E. coli

Salmonella

3 things

1. How did it become contaminated
 - Modern Food processing
2. Rapid Replication
 - improper refrigeration/handling
3. No Preventative Actions
 - no sterilization

Most bacteria multiply rapidly between 45-130 degrees (F)

Food Poisoning

14 US citizens 76 million per year

325,000 hospitalization in 840

5000 deaths a year / 55000

One quarter of all hospitalization happen on 1 day of the year

* Grandma is trying to kill you

Some plasmids code for antibiotic

collect several - becomes immune to multiple antibiotics

Cannot become immune to alcohol or regular soap

Staph causes 20,000 deaths & drug resistant

At home - 16x as likely