***Pathogen Notes - (#8)***

TOC #8

1. Eubacteria:
* **Cell Walls**
	1. two types
		1. Gram stain (+) or (-)
		2. Gram-negative do not respond to antibiotics
* **Shapes**: spherical (“cocci”), spiral, rod-
* **Reproduction:** DNA duplicates, cell divides



* **Nutrition:**
	+ *Autotrophs* (make own food by *photosynthesis or chemosynthesis)*
	+ *Heterotrophs (food made by others)*
* **Roles:**
	+ decomposers
	+ N2-fixers
	+ yoghurt
	+ cheese, etc.
	+ Food contamination:
		- salmonella & botulism!
* Sanitation, heat, cold, vaccination and antibiotics our best defenses
	+ (blue-green bread mold makes penicillin, an antibiotic.)

C. Viruses:

* Not alive. Not cells
* Reproduce by taking over a cell’s nucleus and ribosomes
* Vaccines won’t work if virus mutates quickly
* Antibiotics don’t work at all against viruse

Summary

Comments/Questions



