

5. Colony Appearance



6. Gram Staining - techniques used to differentiate two large groups of bacteria

Gram Positive (+) - less complex cell wall

Gram Negative (-) - multiple layers of complex structure



7. Nucleotide Sequences - prokaryotic chromosomes are typically circular, **haploid** (unpaired DNA associated proteins are within the nucleoid region); distinct of function for prokaryotes



Bacterial Survival Techniques:

Some bacteria form **films**, ex. **Pseudomonas** on teeth



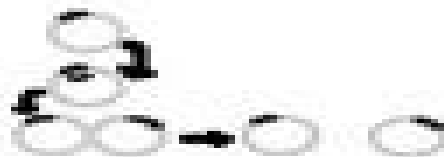
Endospores: thickly wrapped particles of genetic material and few enzymes, ex. **Bacillus**



Bacterial Reproduction:

Binary fission - **asexual cell division**

Producing identical copies; **antibiotics** in **DNA** replication are rapidly spread, **enhancing survival**



Without Reproduction

Conjugation - DNA transfer between donor and recipient; produced new genetic combos.



Modern Biology Study Guide Prokaryotes Answer Key

Carl A. Batt



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