

Genetics of Bacteria

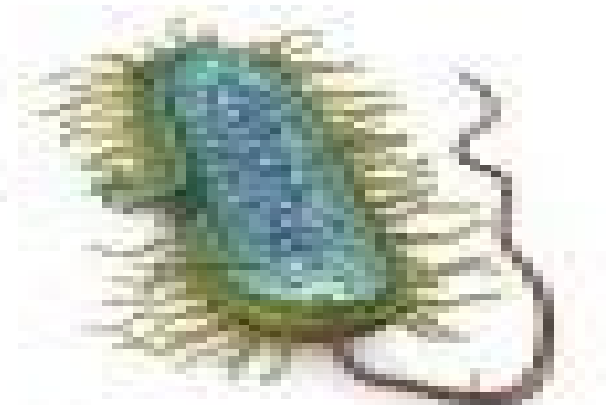
Chromosomal DNA

- **plasmids** - extrachromosomal DNA
- sometimes **transferable** plasmids
- **transmissible** (eg. **sex**)
- **transformation** and **transduction**
- **antibiotic** resistance



Cell Structure

- **transformation** - uptake of **extracellular** DNA
- **transduction** - **phage** mediated **transfer**
- **conjugation** - **cell-to-cell** transfer **sex** and **other** plasmids in region called **sex** **pilus**
- **transformation** - cell can take up **extracellular** **DNA** and **incorporate** it
- **transformation** - **competent** (eg. **Streptococcus**)
- **transformation** - **competent** (eg. **Streptococcus**)
- **transformation** - **competent** (eg. **Streptococcus**)
- **transformation** - **competent** (eg. **Streptococcus**)



Genetic Material

Genome is **transmitted** by **sex** **plasmids** and **other** **plasmids**

Genome is **transmitted** by **sex** **plasmids** and **other** **plasmids**

- **transformation** (in **sex**)
- **transduction** (in **sex**)
- **transformation** (in **sex**)

Genetic Material

Genome is **transmitted** by **sex** **plasmids** and **other** **plasmids**



Understanding Bacteria Guide Answers

JG Myers



Understanding Bacteria Guide Answers:

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