

# Microbiology Introduction

## Significance

- Massively important in health, disease, and the environment
  - 2021 duh
- Differences matter
  - Bacteria free living (in environment), viruses are not (need host)
  - Individuals: a **bacterium** and a **virion**
- Range of shapes and sizes
  - Important for diagnostics
- Bacteria can be infected by viruses too
  - Use this to **our** advantage

## Infection Control Strategies

- Therapeutic Drugs
  - Antibiotics (e.g., Amoxicillin, Erythromycin)
  - Antivirals (e.g., Tamiflu, Acyclovir)
  - Treatment as well as control (limit spread)
- Prophylaxis e.g. vaccines
  - Prevent infection/reduce severity
  - Problems with compliance
- Best Options – Avoidance and Hygiene
  - Education and Infrastructure
  - High quality water and sewage treatment
  - Sanitation, personal hygiene, and food handling

## L1 Microbiology: Structure and Diagnostics

### Size, Shape and Structure

#### Viruses, Bacteria and Eukaryotes

Structure	Viruses	Bacteria (Prokaryotes)	Eukaryotes
Nucleus	No	No	Yes
Genome	Highly variable <ul style="list-style-type: none"><li>- RNA or DNA</li><li>- single or double stranded</li></ul>	Circular DNA chromosome	Linear DNA chromosome(s)
Ribosomes	No ribosome	70s ribosomes	80s ribosomes
Outer structure	Envelope (membrane) OR "Naked" nucleocapsid	Complex cell wall	Simple cell wall
Replication	Rely on host for replication	Binary fission	Sexual reproduction

# Study Guide For Microbiology An Introduction

**Karin Nielsen-Saines**



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