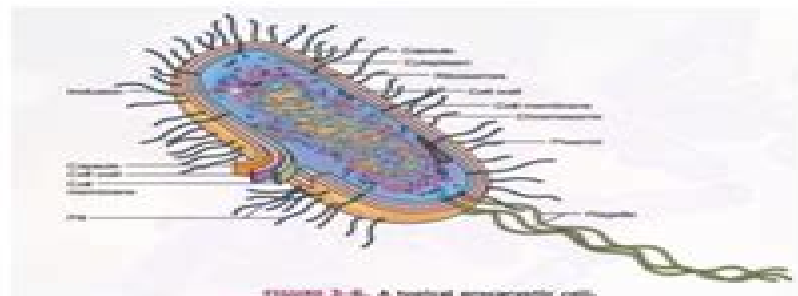


# Bacterial Cell Structure and Function

Maes, K. MED182

| Prokaryote                                | Eukaryote                              |
|-------------------------------------------|----------------------------------------|
| One circular chromosome not in a membrane | Paired chromosomes in nuclear membrane |
| No organelles                             | Organelles                             |
| Peptidoglycan cell walls                  | Polysaccharide walls                   |
| Binary fission                            | Mitosis                                |
| No histones                               | Histones                               |



Peptido= peptides

Glycan= polysaccharide

Histones- proteins that coil DNA

Usual size of bacteria;

0.2 – 2  $\mu$ L in diameter

2 – 8  $\mu$ L in length

Three levels to consider bacterial structure

1. **External Structures** → Appendages (Flagella, Fimbriae, Pili) and Glycocalyx

2. **Cell envelope proper** → Cell wall and cell membrane

3. **Internal Structures** → Chromosomes, plasmids, cytoplasmic granules and inclusions

**Plasmids**- are extra genetic materials

## 1. External Structures

- Glycocalyx
- Flagella
- Fimbriae
- Pili

### A. Glycocalyx – Bacterial Surface Coating

- Coating of molecules external to the cell wall.
- Made of sugar and or proteins.
- "Pericellular matrix"
- Gel-like layer that coats the cell wall.
- **Greek:**
  - **Kalux**= pod/ husk
- Two types:
  - **Slime layer**
    - Loosely organized and attached.
    - Gel easily washed off from cell envelope.
    - Bacteria are protected from dehydration and loss of nutrients.
  - **Capsule**
    - Highly organized tightly attached.
    - Gel firmly adherent to cell envelope.
    - Gross appearance: mucoid colonies
    - With greater pathogenicity than slime layer.
    - Evades phagocytosis

### B. Flagella- Bacterial Propellers

- It is the organ of locomotion in bacterial cell and consists of three parts.
  - ❖ **Filament**- long, thin, helical structure composed of protein.
  - ❖ **Hook**- curved sheath
  - ❖ **Basal body**- stack of rings firmly anchored in cell wall

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**Michael Seilmaier**



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community of fungi inside and on the surface of a human host that is called the mycobiome a term I coined in 2010 that is now in widespread use in both the scientific community and in popular culture The mycobiome is dynamic shifting significantly with every meal We know that what you eat and do directly influence your gut fungi and that your gut fungi in turn can directly influence what you weigh how you feel how well your immune system works how much inflammation you have and more Within 24 hours you can remake your mycobiome for better or for worse based on what you decide to eat and other factors within your control When you make gut friendly choices you can set yourself on the fast track to total gut balance which translates to weight loss better digestion improved health and more energy If you want results and you want them now fungi are your inroad to a short term as well as a long term gut makeover In this book you will learn a new way of eating for gut health that specifically targets fungi and takes advantage of its changeable nature You ll also learn how to target the beneficial bacteria whose job it is to keep fungi under control This can help you get the specific and dramatic results you ve been hoping for in record time The Mycobiome Diet is my potent and fast acting solution to achieve total gut balance through direct intervention with gut fungi This diet takes the best elements from many current popular research based diets but combines them for maximum total gut balance effect as follows

#### **BSCS Science Technology :**

**Investigating Life Systems, Teacher Edition** ,2005      **Quick Bibliography Series** ,1976      *Food Safety and Sanitation*

*Audiovisuals* Natalie A. Updegrave,Natalie Updegrave Partridge,1990      **Evolving germs - Antibiotic resistance and**

**natural selection in education and public communication** Gustav Bohlin,2017-10-20 Bacterial resistance to antibiotics threatens modern healthcare on a global scale Several actors in society including the general public must become more involved if this development is to be countered The conveyance of relevant information provided through education and media reports is therefore of high concern Antibiotic resistance evolves through the mechanisms of natural selection in this way a sound understanding of these mechanisms underlies explanations of causes and the development of effective risk reduction measures In addition to natural selection functioning as an explanatory framework to antibiotic resistance bacterial resistance as a context seems to possess a number of qualities that make it suitable for teaching natural selection a subject that has been proven notoriously hard to teach and learn A recently suggested approach for learning natural selection involves so called threshold concepts which encompass abstract and integrative ideas The threshold concepts associated with natural selection include among others the notions of randomness as well as vast spatial and temporal scales Illustrating complex relationships between concepts on different levels of organization is one of several areas where visualizations are efficient Given the often imperceptible nature of threshold concepts as well as the fact that natural selection processes occur on different organizational levels visual accounts of natural selection have many potential benefits for learning Against this background the present dissertation explores information conveyed to the public regarding antibiotic resistance and natural selection as well as investigates how these topics are presented together by scrutinizing media including news reports

websites educational textbooks and online videos The principal method employed in the media studies was content analysis which was complemented with various other analytical procedures Moreover a classroom study was performed in which novice pupils worked with a series of animations explaining the evolution of antibiotic resistance Data from individual written assignments group questions and video recorded discussions were collected and analyzed to empirically explore the potential of antibiotic resistance as a context for learning about evolution through natural selection Among the findings are that certain information that is crucial for the public to know about antibiotic resistance was conveyed to a low extent through wide reaching news reporting Moreover explanations based on natural selection were rarely included in accounts of antibiotic resistance in any of the examined media Thus it is highly likely that a large proportion of the population is never exposed to explanations for resistance development during education or through newspapers Furthermore the few examples that were encountered in newspapers or textbooks were hardly ever visualized but presented only in textual form With regard to videos purporting to explain natural selection it was found that a majority lacked accounts of central key concepts Additionally explanations of how variation originates on the DNA level were especially scarce These and other findings coming from the content analyses are discussed through the lens of scientific literacy and could be used to inform and strengthen teaching and scientific curricula with regards to both antibiotic resistance and evolution Furthermore several factors of interest for using antibiotic resistance in the teaching of evolution were identified from the classroom study These involve among others how learners perception of threshold concepts such as randomness and levels of organization in space and time are affected by the bacterial context

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