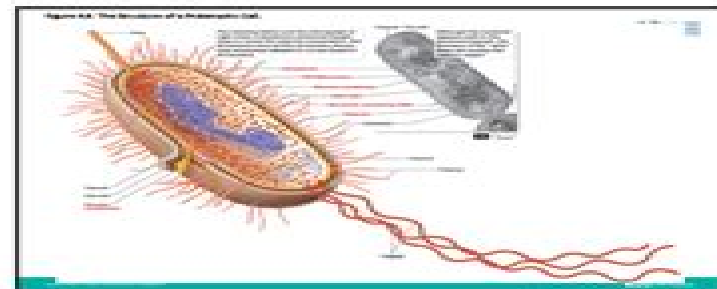




1



2

### Structures External to the Cell Wall

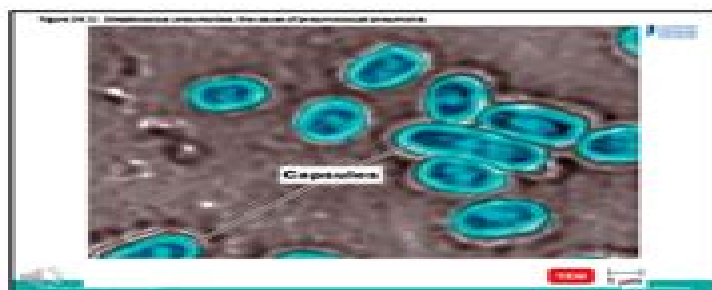
**Learning Objectives**  
Describe the structure and function of the glycocalyx. Differentiate flagella, axial filaments, fimbriae, and pili.

3

### Glycocalyx

- External to the cell wall
- Viscous and gelatinous
- Made of polysaccharide and/or polypeptide
- Two types:
  - Capsule: neatly organized and firmly attached
  - Slime layer: unorganized and loose
- Contribute to virulence
  - Capsules prevent phagocytosis
  - Extracellular polymeric substance helps form biofilms

4



5

### Flagella

- Filamentous appendages external of the cell
- Propel bacteria
- Made of protein flagellin

6

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**Rosina Ehmann**



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