

UNIT 2 STUDY GUIDE Fall 2018 MICR 3050

Chapter 2.7 – 2.13 (Cell Structure/Function, Motility)

1. Describe the following bacterial structures and their functions: capsules, slime layers, cell inclusions, fimbriae, pili, and flagella.

- **Capsules:**

- Usually composed of polysaccharides
- Well organized and not easily removed from cell
- **Advantages:**
 - Attachment to surface and each other **biofilms**
 - Protect against
 - Desiccation
 - Phagocytosis
 - Viruses, detergents, toxins, and antimicrobials
- Capsules can be made out of proteins

- **Slime layers:**

- Similar to capsules except diffuse, unorganized and easily removed
- Slime may aid in motility

- **Cell inclusions**

- Aggregates of organic or inorganic material
 - Granules
 - Crystals
 - Globules
- Some are enclosed by a single-layered “membrane” or invaginations of plasma membrane

- **Fimbriae and pili**

- Short, thin, hair-like, proteinaceous appendages (up to

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