

2. SKIN

The largest organ of the body. When unbroken is an effective barrier for most microorganisms.

- Some microbes can gain entrance thru openings in the skin: hair follicles and sweat glands.

3. PARENTERAL

- Microorganisms are **deposited** into the tissues below the skin or mucous membranes.
- Punctures
- Injections
- Bites
- Scratches
- Surgery
- Splitting of skin due to swelling or dryness

PREFERRED PORTAL OF ENTRY

- Just because a pathogen enters your body it does not mean it's going to cause disease.

PATHOGENS - preferred portal of entry

- *Streptococcus pneumoniae*
 - if inhaled can cause pneumonia.
 - if enters the G.I. Tract, no disease.
- *Salmonella typhi*
 - if enters the G.I. Tract can cause Typhoid Fever.
 - if on skin, no disease.

HOW DO BACTERIAL PATHOGENS PENETRATE HOST DEFENSES?

1. ADHERENCE

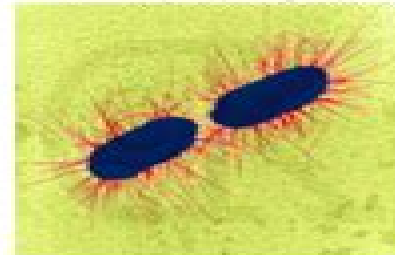
Almost all pathogens have a means to attach to host tissue.

Binding Sites

- Adhesins
- Ligands

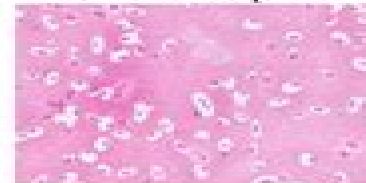
ADHESINS AND LIGANDS ARE USUALLY ON FIMBRIAE

- *Neisseria gonorrhoeae*
- ETEC (Enterotoxigenic *E. coli*)
- *Bordetella pertussis*



2. CAPSULES

- Prevent phagocytosis
- Attachment
- *Streptococcus pneumoniae*
- *Klebsiella pneumoniae*
- *Haemophilus influenzae*
- *Bacillus anthracis*
- *Streptococcus mutans*
- *Yersinia pestis*



- *K. pneumoniae*

3. ENZYMES

- Many pathogens secrete enzymes that contribute to their pathogenicity.

A. LEUKOCIDINS

Attack certain types of WBC's.

1. Kills WBC's which prevents phagocytosis
2. Releases & ruptures lysosomes

- **LYSOSOMES** - contain powerful hydrolytic enzymes which then cause more tissue damage.

Study Guide For Microbial Mechanisms Of Pathogenicity

M Planty



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Table of Contents Study Guide For Microbial Mechanisms Of Pathogenicity

1. Understanding the eBook Study Guide For Microbial Mechanisms Of Pathogenicity
 - The Rise of Digital Reading Study Guide For Microbial Mechanisms Of Pathogenicity
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For Microbial Mechanisms Of Pathogenicity
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide For Microbial Mechanisms Of Pathogenicity
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide For Microbial Mechanisms Of Pathogenicity
 - Personalized Recommendations
 - Study Guide For Microbial Mechanisms Of Pathogenicity User Reviews and Ratings
 - Study Guide For Microbial Mechanisms Of Pathogenicity and Bestseller Lists
5. Accessing Study Guide For Microbial Mechanisms Of Pathogenicity Free and Paid eBooks
 - Study Guide For Microbial Mechanisms Of Pathogenicity Public Domain eBooks
 - Study Guide For Microbial Mechanisms Of Pathogenicity eBook Subscription Services
 - Study Guide For Microbial Mechanisms Of Pathogenicity Budget-Friendly Options

6. Navigating Study Guide For Microbial Mechanisms Of Pathogenicity eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide For Microbial Mechanisms Of Pathogenicity Compatibility with Devices
 - Study Guide For Microbial Mechanisms Of Pathogenicity Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide For Microbial Mechanisms Of Pathogenicity
 - Highlighting and Note-Taking Study Guide For Microbial Mechanisms Of Pathogenicity
 - Interactive Elements Study Guide For Microbial Mechanisms Of Pathogenicity
8. Staying Engaged with Study Guide For Microbial Mechanisms Of Pathogenicity
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide For Microbial Mechanisms Of Pathogenicity
9. Balancing eBooks and Physical Books Study Guide For Microbial Mechanisms Of Pathogenicity
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide For Microbial Mechanisms Of Pathogenicity
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Guide For Microbial Mechanisms Of Pathogenicity
 - Setting Reading Goals Study Guide For Microbial Mechanisms Of Pathogenicity
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Guide For Microbial Mechanisms Of Pathogenicity
 - Fact-Checking eBook Content of Study Guide For Microbial Mechanisms Of Pathogenicity
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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