

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

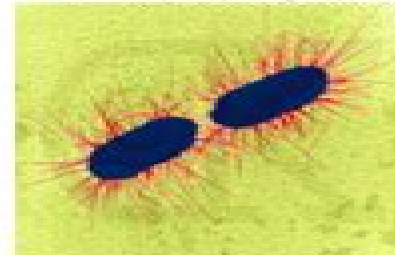
Almost all pathogens have a means to attach to host tissue.

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

Christian Drosten



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Microbiology Nina Parker, Mark Schneegurt, Anh-Hue Thi Tu, Philip Lister, Brian M. Forster, 2021-05-03 Microbiology covers the scope and sequence requirements for a single semester microbiology course for non majors The book presents the core concepts of microbiology with a focus on applications for careers in allied health The pedagogical features of the text make the material interesting and accessible while maintaining the career application focus and scientific rigor inherent in the subject matter Microbiology's art program enhances students understanding of concepts through clear and effective illustrations diagrams and photographs This is an adaptation of Microbiology by OpenStax You can access the textbook as pdf for free at openstax.org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4.0 International License

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Textbook of Microbiology and Immunology - E-book Subhash Chandra Parija, 2016-09-12 The third edition of the Textbook of Microbiology and Immunology provides fully updated text on the various aspects of microbiology and infectious diseases which makes it the most authoritative and informative text in medical microbiology It is a must have book for preparing MBBS examination as well as the postgraduate entrance tests Clear succinct and comprehensive information on various aspects of microbiology and immunology Thoroughly revised information with tables and figures for better understanding Multicolor book designed in attractive student friendly format with color photographs and illustrations to aid better understanding Case studies at the end of chapters for self assessment Special emphasis on emerging and re emerging pathogens and antimicrobial resistance Covers recent advances in molecular diagnosis and vaccines Additional emphasis on clinical microbiology with special focus on syndromic approach to infectious diseases Online study materials include Key Facts Study Questions Multiple Choice Questions and PowerPoint presentation of each topic **Microbiology Abstracts**

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develops to disease of all ages including asthma and chronic obstructive pulmonary disease chronic suppurative lung diseases interstitial lung diseases acquired pneumonias transplantation cancer and HIV and the interaction of the respiratory microbiome and the environment **European Scientific Notes** ,1971 *Graduate Programs in the Biological Sciences* 2008 Peterson's Guides Staff,Peterson's,2007-12 The six volumes of Peterson s Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 3 contains more than 4 000 programs of study in 53 disciplines of the biological sciences *Annual Catalogue of the University of Kansas* University of Kansas,1975

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