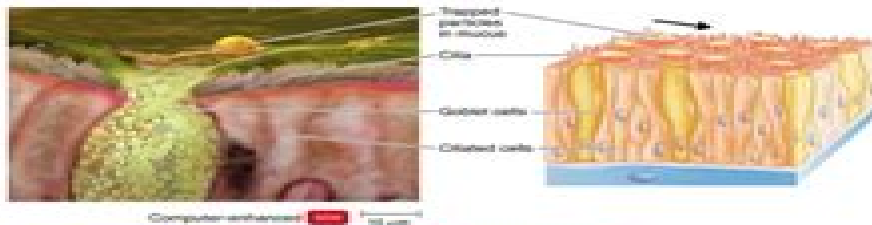


**LD 50:** – lethal dose for 50% of exposed population **will die**

- Measures potency of a toxin → the lower the number, the worse it is

**ciliary escalator:** Ciliated mucosal cells of the **lower respiratory tract**(bronchiole) that move inhaled particulates/microbes away(upwards) from the lungs.

- This so-called ciliary escalator keeps the mucus blanket moving toward the throat at a rate of 1 to 3 cm per hour; coughing and sneezing speed up the escalator.
- Some substances in cigarette smoke are toxic to cilia and can seriously impair the functioning of the ciliary escalator by inhibiting or destroying the cilia.
- Mechanically ventilated patients are vulnerable to respiratory tract infections because the ciliary escalator mechanism is inhibited.
- Ciliary escalator moves particles toward the throat **via ciliary action**



**Opsonization:** The **enhancement of phagocytosis** by coating microorganisms with certain **serum proteins (opsonin)**; also called immune adherence. Makes digestion easier.

**Antigen:** aka immunogen – substance that can induce production of antibodies and **cause immune response**

- ex – bacteria, virus
- Usually, components of invading microbes or foreign substances
- Antibodies interact with **epitopes**, or **antigenic determinants**, on the antigen

**toxoid vaccine:** inactivated toxins (**non-toxic for vaccination**). Use to **prevent diphtheria** or symptoms of **tetanus**.

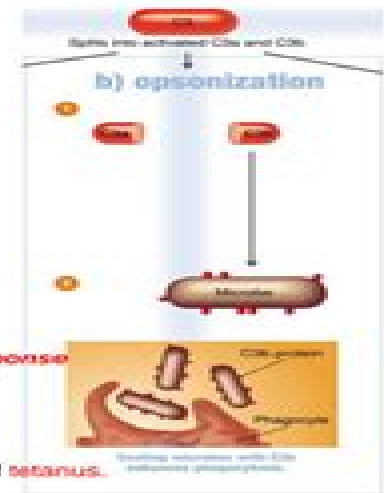
- contain inactivated toxins produced by a pathogen, eliciting an antibody response against that particular pathogen component.
- The tetanus, diphtheria, and acellular pertussis toxoids are part of the standard childhood immunization series that requires a series of injections, followed by boosters every 10 years to maintain full immunity.
- Tetanus toxoid (DTaP)
  - Stimulated antibodies that neutralize the toxin
  - Fewer than 10 cases per year (mortality 25-50%)
  - Treatment with tetanus immune globin (TIG)
  - Infected tissue removed via **debridement**

**Hybridoma:** fusion of **myeloma** (cancer of the bone marrow cells) cells **and B-cells** that produces monoclonal antibodies for serological testing

- Unfortunately, a B cell reproduces only a few times under the normal cell culture conditions. This problem was largely solved by tapping cancerous plasma B cells for culture.
- These cancerous plasma B cells, known as myelomas, no longer make antibodies but can be isolated and grown indefinitely in cell culture.
- Combining an "immortal" cancerous B cell with an antibody-producing normal B cell creates a hybridoma that, when grown in culture, **produces the type of antibody characteristic of the ancestral B cell** indefinitely.

**attenuated whole-agent vaccine:** A vaccine containing live, attenuated (weakened) microorganisms that may cause lifelong cellular and humoral immunity.

- The live pathogen may revert back to its original strength and cause the same disease we're trying to prevent
- Ex: Polio, Measles



# Pearson Study Guide For Microbiology

**Alan H. B. Wu**



## **Pearson Study Guide For Microbiology:**

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chemical interferences and in vivo effects kinetic values diagnostic information factors influencing drug disposition and clinical comments and remarks The most current and relevant tests are included outdated tests have been eliminated Test index with extensive cross references and disease index provide the reader with an easy way to find necessary information Four new sections in key areas Preanalytical Flow Cytometry Pharmacogenomics and Allergy make this edition current and useful New editor Alan Wu who specializes in Clinical Chemistry and Toxicology brings a wealth of experience and expertise to this edition The Molecular Diagnostics section has been greatly expanded due to the increased prevalence of new molecular techniques being used in laboratories References are now found after each test rather than at the end of each section for easier access The Publishers' Trade List Annual ,1988 **Pearson's Clinical Medical Assisting** Nina Beaman,Lorraine Fleming-McPhillips,2007 Having a balanced understanding of legal and ethical concepts and applying them to a multitude of real life clinical and administrative situations is essential to any health professional This text provides this balance by helping health professionals understand both the intention as well as the realities of the law All the while preparing them for the major ethical considerations and dilemmas they may encounter Written in a straightforward manner aimed at health professionals in a variety of settings this book introduces the reader to many topics affecting health care today such as the legal system patient physician relationship professional liability and malpractice prevention confidentiality physician s public duties medical records and bioethical issues Through this introduction healthcare professionals will better understand the ethical obligations to the patient the employer and themselves For Medical Assisting students *Using the Biological Literature* Diane Schmidt,2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries Using the Biological Literature A Practical Guide Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition

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violento più tardi le morirono anche i due figli entrò allora nel monastero agostiniano di cascia e praticò una vita di pietà e rassegnazione contrassegnata secondo la tradizione da fatti miracolosi tra l'altro esaudendo