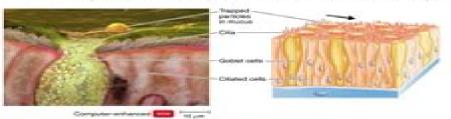
- LD 50: lethal dose for 50% of exposed population will alle
  - Measures potency of a toxin the lower the number, the worse it is

cliary 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.

b) opsonization

- Some substances in cigarette smoke are toxic to citia and can seriously impair the functioning of the citiary escalator by inhibiting or destroying the citia.
- Mechanically ventilated patients are vulnerable to respiratory tract infections because the citiary 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

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

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

- 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

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**Rosina Ehmann** 

**Microbiology Study Guide Pearson:** 

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