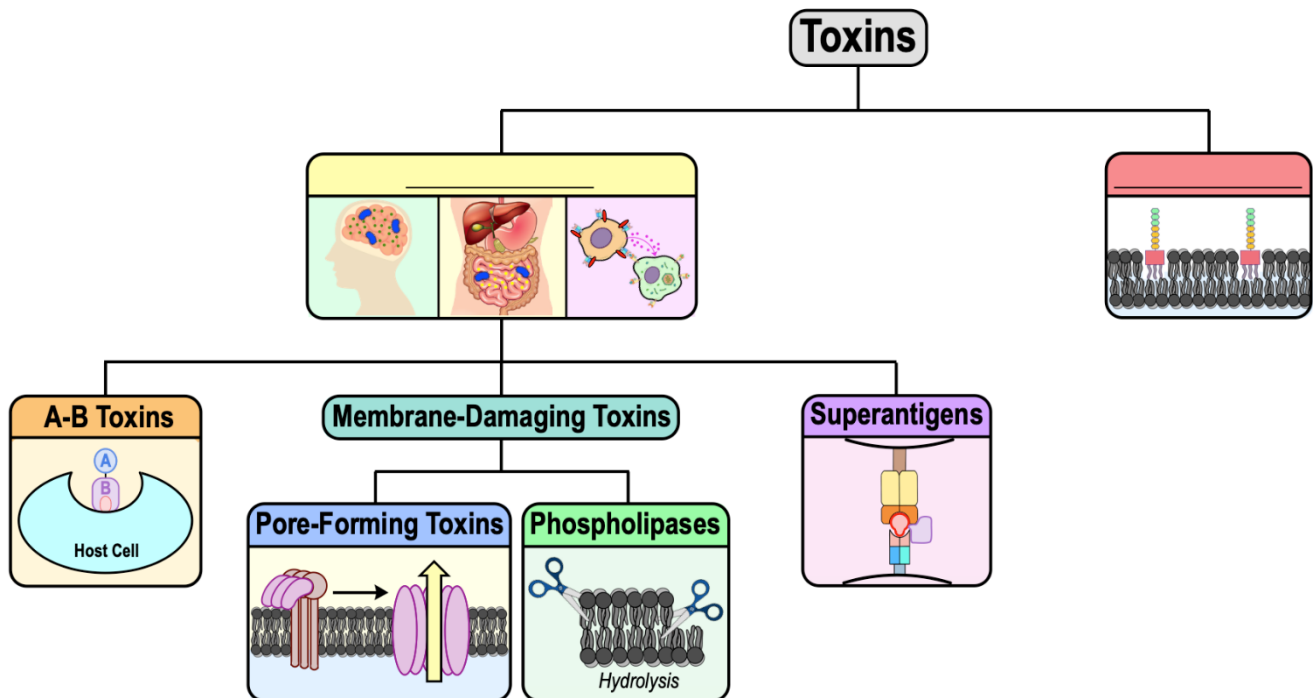


CONCEPT: INTRODUCTION TO PATHOGENIC TOXINS

- Certain pathogens produce biological poisons called _____ that allow them to invade & damage host tissues.
 - **Toxicogenicity:** ability for a pathogen to produce toxins that damage host cells.
- Toxins can be classified into _____ groups:
 - 1) **Exotoxins:** soluble _____ that a pathogen releases during infection or following lysis.
 - _____ different categories of exotoxins are grouped by their different structures & functions (see image).
 - 2) **Endotoxin:** the lipopolysaccharide (LPS) found on the outer membrane of gram-_____ bacteria.



- **NOTE:** the host immune system is also capable of *unintended* damage to host cells when overstimulated during infection.

PRACTICE: Phospholipases are characterized by all of the following **except** which of these answers?

- Possess the ability to damage host cells.
- Are released by pathogens into host cells during infection.
- Are able to form pores in the cell membranes of host cells.
- Are able to hydrolyze cell membranes of host cells.

PRACTICE: The term endotoxin is synonymous with:

- A-B toxins.
- Lipopolysaccharide (LPS).
- Phospholipase.
- None of the above.