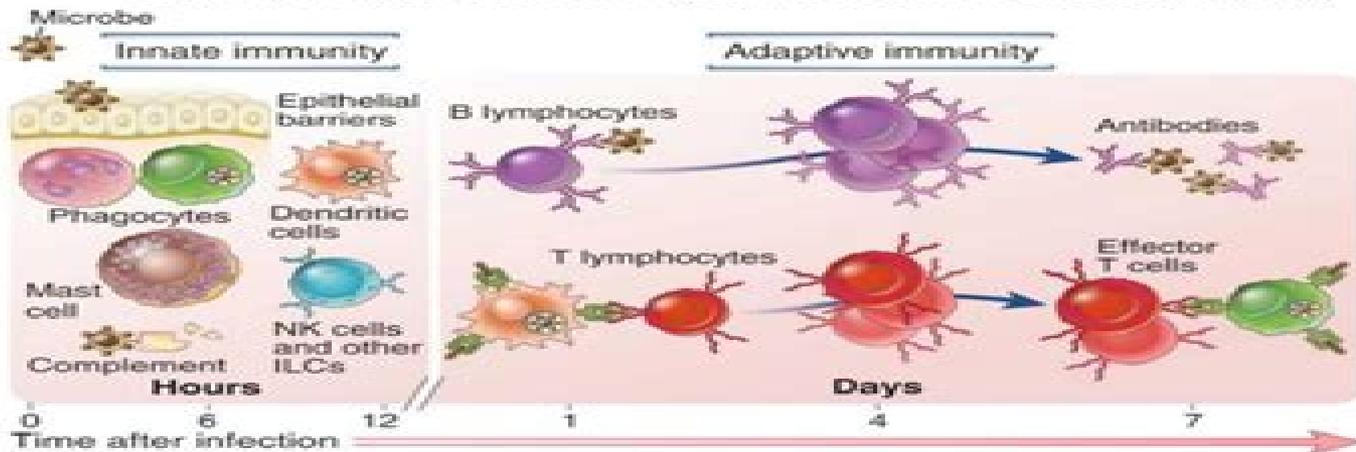


WEEK 1 26/07/2018

- An Immunogen (immunogenic) elicits an adaptive immune response e.g. influenza virus
- An Antigen (Ag) is a specific immune target (usually referring to recognition by adaptive cells) e.g. hemagglutinin on surface of influenza virus.
- Levels of protection from pathogens:
  - First line: Physical barriers that viruses and bacteria must cross. Skin covers and mucous membranes that line digestive, respiratory, reproductive tracts, cover ~400 m<sup>2</sup>
  - Second line: Innate immune system. Macrophages (Greek for "big eater"), neutrophils, natural killer (NK) cells, Cytokines (hormone-like proteins that mediate inflammation), Complement proteins
  - Third line (vertebrates only): Adaptive immune system, adapts to defend against specific pathogens using variable receptors.
    - B cells make antibodies, each individual B cell makes a specific antibody to a specific antigen
    - T cells mediate cellular responses using variable receptors (T cell receptors; TCRs)



- Innate Immunity:
  - Present at birth and for life
  - No specificity (i.e. can respond to many stimuli)
  - Not modified by stimulus (i.e. no memory, not enhanced on subsequent exposure)

# Lecture Notes Infectious Diseases

**Sebastian Brünink**



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