**Host**
- Age
- Genetics
  - Immune status

**Environment**
- Lifestyle
- Exposure

**Stimulus**
- Microbial
- Non-Microbial

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**Chronic inflammation**

**Acute inflammation**

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**Innate Immunity**
- Toll-like receptors (TLRs)
- NOD-like receptors (NLRs)
- RIG-like receptors (RLRs)

**Adaptive Immunity**
- CD4 and CD8 T cells
- Antigen-specific B cells

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**DEFICIENT innate immune signaling:**
- Death due to infection

**Host recovery and protection from reinfection**

**EXCESSIVE innate immune signaling:**
- Death due to inflammation