**Macrophage**

**Neutrophil**

**Dendritic cell**

**Inflammatory proteins**

**Monocyte**

**Pathogens**

**Blood vessel**

- Reduced chemotaxis of neutrophils
- Reduced apoptosis
- Impaired signal transduction
- Decreased superoxide production
- Reduced recruitment into lipid rafts

**Ageing**

- Reduced expression of TLR on macrophages
- Compromised function of TLR
- Reduced chemotaxis and phagocytosis
- Decreased cytokine production
- Reduced MHC-expression and signaling