Abstract

Interleukin-17 is a proinflammatory cytokine that contributes to the host protection through initiation and amplification of inflammation. Inflammation is a crucial mechanism of immune system which protects host from invading pathogens and toxic agents. However, uncontrolled activation of the immune system may also promote autoimmune chronic diseases. Due to this, understanding how proinflammatory signaling pathways are activated and propagated is important in order to prevent autoimmune and chronic inflammatory disorders. This text will discuss molecular mechanisms of interleukin-17 signal pathway leading to the progression of inflammatory immune responses with focus on activators and inhibitors of proximal interleukin-17 receptor signaling.

Keywords

Interleukin-17, proinflammatory cytokines, signal transduction, receptor signaling complex, autoimmune disorders, inflammation