[The role of the innate immune system in atopic dermatitis].

Abstract:

The mechanisms how the innate immune system detects microbes and mounts a rapid immune response have been more and more elucidated in the past years. Subsequently it has been shown that innate immunity also shapes adaptive immune responses and determines their quality that can be either inflammatory or tolerogenic. As atopic dermatitis is characterized by disturbances of innate and adaptive immune responses, colonization with pathogens and defects in skin barrier function, insight into mechanisms of innate immunity has helped to understand the vicious circle of ongoing skin inflammation seen in atopic dermatitis patients. Elucidating general mechanisms of the innate immune system and its functions in atopic dermatitis paves the way for developing new therapies. Especially the novel insights into the human microbiome and potential functional consequences make the innate immune system a very fundamental and promising target. As a result atopic dermatitis manifestations can be attenuated or even resolved. These currently developed strategies will be introduced in the current review.