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Analysis of mechanisms suppressing chronic inflammation via posttranscriptional regulation in innate immunity

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Abstract

Macrophages and dendritic cells play an important role in innate immunity, which are critical for initial responses against infection. Although the activation and suppression of innate immunity is well balanced, prolonged activation of innate immunity leads to the development of chronic inflammatory diseases. This study is aiming to re-define the regulatory mechanisms of innate immunity from posttranscriptional control point of view based on the roles of RNase we identified, in addition to transcriptional control. Ultimate goal of this study is to develop a novel method for the regulation of inflammation.