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Innate-Acquired Linkage in Immunotherapy

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Message from the Guest Editor

The immune system is categorized into innate and acquired systems, and vertebrates including humans possess a network constituting innate–acquired linkage. T lymphocyte proliferation and activation is rooted in dendritic cell/macrophage signal in the context of innate pattern sensing. Antigen-presenting dendritic cells consist of unique subsets and enhance T cell proliferation and antibody production by B cells. Pattern-sensing renders inflammatory profiles multifarious in a cell type-specific manner, in some cases reaching prolonged inflammation, resulting in chronic diseases. Thus, the regulation of excess inflammatory response is indispensable for life health. Many cell types have their own unique innate/acquired response depending on environmental factors. However, the mechanisms whereby the immune system makes homeostasis in disease states remain largely to be elucidated. Immune-enhancers called adjuvant, blockades of checkpoint inhibitors, dying cells, and damage-associated molecular patterns (DAMP) all accelerate inflammatory status in their environmental context.



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