

Special Issue

T Cell-Mediated Antiviral Immunity

Message from the Guest Editor

Pattern recognition receptor signalling (TLRs, RLRs, CLRs, and NLRs) can recognize viral pathogen associated molecular patterns and can trigger a robust type-I interferon (IFN) and pro-inflammatory cytokine response that functions to control virus replication and limit spread within a host. Antigen presenting cells (e.g., dendritic cells) provide a critical link between these innate immune signals and priming T-cell responses that function to clear virus infection and provide protection against re-infection. Over the past 20 years, there have been tremendous research efforts to understand the underlying mechanisms that regulate both dendritic cell responses and the development of effector and memory antiviral T-cell responses during virus infection. These efforts have culminated in identifying key transcription factors, signaling components, and cytokines that ultimately determine T-cell fate and function. Recent technological advances and the use of integrated multi-omics-based approaches (e.g., epigenomic, transcriptomic, proteomic, metabolomic, and lipidomic) are providing an unprecedented and global assessment of T-cell responses during virus infection.

Guest Editor

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