

Special Issue on Type I Interferon Responses in Viral Infectious Diseases

CALL FOR PAPERS

Type I interferon (IFN-I) is an important innate immune system regulator of viral infections, showing potent antiviral as well as antiproliferative and immune modulatory effects. IFN-I, which comprise multiple subtypes of IFN- and a single IFN-, are synthesized and secreted by virus-infected cells and induce an antiviral state by upregulating genes which restrict viral replication and spread by various mechanisms. Most viruses have evolved specific strategies to downregulate IFN responses by attenuating IFN signaling at different steps, allowing the viral survival in the host, which, in turn, causes disease. In addition to the protective antiviral effects of IFN-I signaling, recent pathogenic and proviral roles for IFN-I have been reported during acute and chronic viral infections.

Considering this, we would like to invite the scientific community to submit original research articles to this special issue. This issue is intended to present and discuss new data on the effects of IFN-I on the host response during viral infectious diseases and on the underlying mechanisms that mediate these effects.

Potential topics include but are not limited to the following:

- ▶ Induction of IFN-I responses by viruses
- ▶ Interferon stimulated genes that mediate antiviral effector functions against viruses, their importance for each aspect of antiviral response, and their cooperation in the establishment of an antiviral state of target cells
- ▶ IFN-I induced antiviral effector mechanisms
- ▶ Protective role of IFN-I during viral infection
- ▶ Eicosanoid inhibition of IFN-I mediated immunity to viral infection
- ▶ Stimulation of adaptive immune responses by IFN-I
- ▶ Potential pathogenic role of IFN-I during acute viral infections
- ▶ Immunosuppressive role of IFN-I in chronic viral infections
- ▶ Disruption of IFN-I induction and signaling response by viruses
- ▶ IFN-I treatment of viral infectious diseases

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/mi/tirvi/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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