

Special Issue on  
**Neurotropism in Emerging and Reemerging Viruses**

# CALL FOR PAPERS

The central nervous system (CNS) is unique for many reasons including that access to the CNS is selectively restricted by tight junction morphology of the blood brain barrier (BBB). Viruses have evolved mechanisms to infect the CNS either by direct modulation of the BBB or by exploiting the direct nerve connections to the brain such as via olfactory neurons and trigeminal nerves. Viruses such as Chikungunya, Ebola, and Zika have shown neurotropism during recent outbreaks. It is possible that viruses may have evolved to gain the neurotropism or that it was not recognized previously in these viral infections. Treatment of neurotropic viral infections, either with supportive care or with direct intervention with antiviral drugs, will need to include strategies for targeting the CNS phase of infection across the blood brain barrier. Virus induced host factors play important role in the ultimate outcome of these diseases and understanding of these mechanisms has potential to develop new antiviral therapies that target the host factors important for virus replication and disease development.

For the special issue on the neurotropism in emerging and reemerging viruses, we invite contributions of original work and reviews that address this important global health problem. Of particular interest will be manuscripts that advance current understanding of the mechanism of virus entry into the CNS and of the host-virus interaction essential for the development of disease or control thereof.

Potential topics include but are not limited to the following:

- ▶ New paradigms of viral entry into the CNS
- ▶ Host-virus interactions during or leading up to the CNS phase of viral infections
- ▶ Therapeutic approaches targeting the CNS phase of infection
- ▶ Antiviral countermeasures against neurotropic viruses

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/av/nerv/>.

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

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**Publication Date**

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