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Prion Neuroinvasion 2.0

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Prion diseases are a class of fatal neurodegenerative diseases that affect animals, including humans. The causative agent is a misfolded protein that is sometimes inherited and the result of an iatrogenic procedure, but more commonly, prions gain access to the interior of the body by crossing the epithelium of the gut, nasal cavity, or the skin.

While much work has been carried out on the pathogenesis of prion diseases, there are several questions that remain unanswered, including the cellular and molecular events of prions crossing the epithelial tissue, the role of blood in the spread of prions, the specific mechanism(s) of how prions enter and spread centripetally in the peripheral and central nervous systems, and how prions spread centrifugally to peripheral tissues where they are shed.

The focus of this Special Issue is the process of prion entry and neuroinvasion, the spread of prions in the central and peripheral nervous systems, and the mechanism(s) of neuronal cell death.

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Message from the Editor-in-Chief

Viruses (ISSN 1999-4915) is an open access journal which provides an advanced forum for studies of viruses. It publishes reviews, regular research papers, communications, conference reports and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full experimental details must be provided so that the results can be reproduced. We also encourage the publication of timely reviews and commentaries on topics of interest to the virology community and feature highlights from the virology literature in the 'News and Views' section.

Electronic files or software regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material.

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