

Special Issue

Poxviruses: Novel Concepts and Emerging Trends

Message from the Guest Editor

All viruses need to infect, replicate, and transmit whilst they deal with host defensive processes. Poxviruses are evolutionarily successful viruses able to infect insects (entomopoxviruses) and chordates (chordopoxviruses), including fish, reptiles, aves, and mammals. To achieve this, poxviruses have evolved complex strategies to hijack cellular resources, subvert host antiviral responses, and produce multiple infectious forms adapted to cell-to-cell or host-to-host transmission. Our knowledge on poxviruses has been driven by research on the prototypic member vaccinia virus, the smallpox vaccine, and a popular vaccine vector and oncolytic agent. This Special Issue aims to collect insightful reviews and perspectives on the biology of these unique viruses and their vast impact on human and animal medicine. Potential topics include but are not limited to molecular and cell biology of poxviruses; virus–host interactions; tropism; animal and human health; and biomedical applications. I very much look forward to receiving your contributions for this exciting Issue.

Guest Editor

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

Prof. Dr. Hinh Ly

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