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Application of Advanced Imaging to the Study of Virus Replication

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Message from the Guest Editors

Dear Colleagues,

For decades, electron microscopy has been the method of choice for the visualization of viruses. More recently, novel fluorescence imaging approaches combined with innovative labeling strategies and tracking algorithms, have opened new and exciting possibilities to study the dynamics of virus–host cell interactions and provide insights into the architecture of subviral structures in a complex cellular environment.

This Special Issue of *Viruses* covers recent advances in virology achieved by employing modern fluorescence imaging techniques. We would like to assemble a collection of primary research papers and reviews that focus on insights in the field of virus–cell or virus–host interaction obtained using advanced fluorescence microscopy or spectroscopy approaches. Topics may include virus imaging, single virus tracing or fluorescence analyses, as well as novel labeling strategies or image analysis methods used to elucidate quantitative and dynamic aspects of virus replication and spread.

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Prof. Don C. Lamb
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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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