Special Issue

Glycans in Virus-Host Interactions

Message from the Guest Editor

Viral surface glycans shield vulnerable protein epitopes from host immunity, but can also present distinct "glycoepitopes" that can be targeted as novel antigens for therapeutic response to infectious diseases. This Special Issue focuses on articles that cover the following areas: (1) characterization of glycosylation in the context of viral surface glycoproteins and glycan receptors displayed on specific host cells or tissues infected by a virus; (2) characterization of the sequence and structural specificity of recognition of glycan receptors by viruses and/or viral proteins; (3) the design and engineering of novel therapeutic agents, such as antibodies, that recognize distinct glycoepitopes on viral surfaces and achieve potent neutralization or other glycan-binding proteins (including lectins) that can specifically block interactions involving virus and host receptors.

Guest Editor

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Deadline for manuscript submissions

closed (15 July 2025)

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About the Journal

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.

Editor-in-Chief

Dr. Eric O. Freed
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