

Sugar diversity on viral proteins - a so far overlooked defense mechanism of viruses?

Initiative: "Experiment!" (beendet)

Ausschreibung: Explorative Phase

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The hugely variable sugar composition of viral envelope proteins can interfere with antibody binding, however, can it also maintain a viral infection by creating a subpopulation of viral particles that are unrecognizable for the immune system? Using the human immunodeficiency virus (HIV), which is highly decorated with a dense coat of variable sugar types and a new flow cytometry method called flow virometry, this question will be investigated. If there is sugar diversity-based viral escape, the characterization of this new mechanism might broadly improve the success of future antibody-based biomedical interventions against viruses.

Projektbeteiligte

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