

14th Summer Academy “Infection and Immunity”
Lecture 10 on Monday, 25 August, 2025

Jun.-Prof. Dr. Christina Karsten



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***The Human Immunodeficiency Virus –
Exploring and Exploiting Virus Diversity for New Biomedical Interventions***

Publications for seminar preparation:

Macrophage- and CD4⁺ T cell-derived SIV differ in glycosylation, infectivity and neutralization sensitivity

Karsten CB, Buettner FFR, Cajic S, Nehlmeier I, Roshani B, Klippert A, Sauermann U, Stolte-Leeb, Reichl U, Gerardy-Schahn R, Stahl-Hennig C, Pöhlmann S
PLOS Pathogens. 2024 20(5): e1012190.

Exploiting glycan topography for computational design of Env glycoprotein antigenicity

Yu W-H, Zhao P, Draghi M, Arevalo C, **Karsten CB**, Suscovich TJ, Gunn B, Streeck H, Brass AL, Tiemeyer M, Seaman M, Mascola JR, Wells L, Lauffenburger DA, Alter G
PLOS Computational Biology. 2018 14(4): e1006093.

Exclusive Decoration of Simian Immunodeficiency Virus Env with High-Mannose Type N-Glycans Is Not Compatible with Mucosal Transmission in Rhesus Macaques

Karsten CB, Buettner FF, Cajic S, Nehlmeier I, Neumann B, Klippert A, Sauermann U, Reichl U, Gerardy-Schahn R, Rapp E, Stahl-Hennig C, Pöhlmann S
Journal of Virology. 2015 89(22):11727-11733.

