

Tuesday, November 3, 2026 · 11:00

FMI,Fabrikstrasse 24, Room 60/61

FRIEDRICH MIESCHER LECTURE



Prof. Dr. Yuping Li

Biozentrum, University of Basel

Discovery and mechanistic characterization of bacterial immune arsenal against nucleus-forming jumbophages

Host: Selma Dahmane

The Yuping Li lab investigates the early infection biology of phiKZ-like jumbophages, complex viruses that protect their genomes within specialized structures to evade bacterial immunity. The lab studies the "jumbophage killer" (Juk) immune system, in which JukA detects infection and recruits JukB to disrupt the protective early phage infection (EPI) vesicle. Despite JukA's presence in 20% of Gram-negative bacterial genomes, how it recognizes infection remains unknown. By studying JukA and other newly discovered immune proteins, the lab aims to uncover the mechanisms underlying phage infection and bacterial defense.