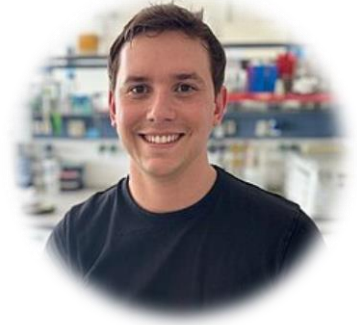


京都大学医生物学研究所

「ウイルス学の潮流セミナー」2025

演者 : Dr. Max Josef Kellner

Research Group Leader,
Laboratory for Virus-Host Co-Evolution,
Helmholtz Centre for Infection Research (HZI)



“Accessing the Inaccessible: Using Organoids to Model Host–Virus Interactions at the Animal–Human Interface”

日時 : 2025 年 9 月 30 日 (火) 16:00~18:00

場所 : 京都大学医研 3 号館 3 階セミナー室 A

3F Seminar room A, Bldg. #3 of Institute for Life and Medical Sciences (LiMe)

(開催言語 : 英語 Language: English)

Zoonotic viruses emerging at the animal–human interface have repeatedly caused global health and economic crises. To enable mechanistic insight into host–virus interactions across mammals, we established protocols to cryopreserve wildlife and human tissues and generate complex organoid models for comparative functional analyses. Using the Egyptian fruit bat as a reservoir model for highly pathogenic zoonotic viruses, we uncovered striking differences in cellular responses to infection compared with human organoids. In bats, constitutive and self-amplifying interferon signaling restricts viral replication, supporting a model of enhanced antiviral immunity that may underlie their resilience to viral disease.

主催 : JSPS 研究拠点形成事業 Core-to-Core Program 「ウイルスの二面性の理解・活用のための国際研究拠点形成」
共同利用・共同研究拠点 「ウイルス・幹細胞システム医生物学共同研究拠点」

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