

令和 7 年度 第 37 回 大学院セミナー

令和 7 年 8 月 19 日

分野名 Area of Research (責任者名)(内線)	ウイルス感染制御学分野 責任者名(南保 明日香) 内線(7970)
演 題 Title	Studying ebolavirus RNA synthesis using reverse genetics
講 師 等 Presenter	Dr. Thomas Hoenen Laboratory Head, Laboratory for Integrative Cell and Infection Biology Pathogens, Institute of Molecular Virology and Cell Biology, Friedrich-Loeffler-Institut, Greifswald-Insel Riems
概要 Abstract	Ebolaviruses cause severe hemorrhagic fevers with high case fatality rates. However, from a molecular point of view they are rather simple viruses with just a few structural proteins that facilitate the virus life cycle. One central aspect of this life cycle is viral RNA synthesis, i.e. the replication of viral vRNA genomes and the transcription of viral mRNAs. To study these processes, we employ reverse genetics-based tools such as life cycle modelling systems and recombinant viruses. Using these tools we could show that ebolavirus RNA synthesis takes place in virus-induced cytoplasmic structures called inclusion bodies, and that these structures are formed by liquid-liquid phase separation. Further, we have identified a number of cellular factors that play important roles in these processes, and deciphered molecular details of their functions. Overall, we hope to apply this knowledge to identify novel therapeutic targets against ebolaviruses, and possibly also against related viruses.
開催日時 Date and Time	令和 7 年 9 月 16 日(火) 16:00~17:00
開催方法 Online/Face to face	高度感染症研究センター1F 大会議室
備 考 Notes	問い合わせ先: 南保明日香・浦田秀造(高度感染症研究センター) 内線 7970 or E-mail: nanboa@nagasaki-u.ac.jp

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☒ 先端新興感染症病態制御学特論
☐ 日本語(Japanese)
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☒ 英語(English)
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