

15th Summer Academy “Infection and Immunity” Lecture 2 on Tuesday, 28 July, 2026

Prof. Dr. Ruth Bröring



Department of Gastroenterology and Hepatology

University Hospital Essen

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Hepatic innate immunity - friend or foe in viral infections

Publications for seminar preparation:

Liang Y, Luo X, Schefczyk S, Muungani LT, Deng H, Wang B, Baba HA, Lu M, Wedemeyer H, Schmidt HH, **Broering R**. Hepatitis B surface antigen expression impairs endoplasmic reticulum stress-related autophagic flux by decreasing LAMP2. JHEP Rep. 2024 Jan 28;6(4):101012.

Schefczyk S, Luo X, Liang Y, Hasenberg M, Walkenfort B, Trippler M, Schuhenn J, Sutter K, Lu M, Wedemeyer H, Schmidt HH, **Broering R**. Tg1.4HBV-s-rec mice, a crossbred hepatitis B virus-transgenic model, develop mild hepatitis. Sci Rep. 2023 Dec 20;13(1):22829.

Luo X, Zhang R, Schefczyk S, Liang Y, Lin SS, Liu S, Baba HA, Lange CM, Wedemeyer H, Lu M, **Broering R**. Nuclear translocation of YAP drives BMI-associated hepatocarcinogenesis in hepatitis B virus infection. Liver Int. 2023 Sep;43(9):2002-2016.

Luo X, Zhang R, Lu M, Liu S, Baba HA, Gerken G, Wedemeyer H, **Broering R**. Hippo Pathway Counter-Regulates Innate Immunity in Hepatitis B Virus Infection. Front Immunol. 2021 May 25;12:684424.

Zhang Z, Trippler M, Real CI, Werner M, Luo X, Schefczyk S, Kemper T, Anastasiou OE, Ladiges Y, Treckmann J, Paul A, Baba HA, Allweiss L, Dandri M, Gerken G, Wedemeyer H, Schlaak JF, Lu M, **Broering R**. Hepatitis B virus particles activate toll-like receptor 2 signaling initial upon infection of primary human hepatocytes. Hepatology 2020 Sep;72(3):829-844.

Broering R, Zhang X, Kottlil S, Trippler M, Jiang M, Lu M, Gerken G, Schlaak JF. The interferon stimulated gene 15 functions as a proviral factor for the hepatitis C virus and as a regulator of the IFN response. Gut. 2010 Aug;59(8):1111-9.