8th Glienicke Workshop on
Electron Microscopy in Infectious Diseases -
Diagnostics and Research


The Glienicke workshop assembles people which are interested in diagnostic electron microscopy (EM) and research of pathogens for discussions, exchange of ideas and knowledge.

Major topics of the meeting are:
• Diagnostic EM: Principles, methods and organisation
• Case studies of infectious diseases and zoonoses
• EM in pathogen research
• Perspectives of microscopy in diagnostics and research

The program is open for oral and poster contributions by participants. Please register and send us a title of the intended presentation and a brief outline of the content (a few sentences are sufficient).

Organiser:
Dr. Michael Laue (ZBS 4)

Meeting fees:
50 €; students, 25€; DGE-members, free

Registration:
glienicke2017@rki.de
Glienicke Workshop – Preliminary Program (14.08.2017)

Thursday, 21st September

9:00  Registration

10:00  Electron Microscopy of Pathogens – Diagnostics and Pathology

  Daniel Beniac (Public Health Canada, Winnipeg) - Diagnostic Electron Microscopy at Canada’s National Microbiology Laboratory, detection of high-consequence viral and bacterial pathogens

  Antonio Lavazza (Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia Romagna, Brescia) - An epizootiological survey of bats as reservoirs of emerging viruses in Italy.

  Atanu Basu (National Institute of Virology, Pune) – Pathogenesis of the Kysanur Forest Fever virus

  Pawel P. Liberski (Dept. Molecular Pathology and Neuropathology Medical University Lodz) - Ultrastructure of prion diseases

12:00 Lunch & Coffee

13:00  Electron Microscopy of Pathogens – Diagnostics and Pathology

  Mateja Poljšak-Prijatelj  (University of Ljubljana) – Zika virus in the fetal brain

  Andreas Kurth (Robert Koch Institute, Berlin) – The BSL-4 laboratory at the RKI

  Ida-Maria Sintorn (Vironova, Stockholm) – The MiniTEM

  Michael Laue (Robert Koch Institute, Berlin) – Cases, sample inactivation, particle enrichment, EQA, VirusExplorer

16:30  Lab tour in the new lab building, finger food and drinks

Friday, 22nd September

10:00  Microscopy in the Research of Infectious Diseases

  Jacomine Krijnse-Locker (Pasteur Institute, Paris) - Contributions of modern EM to understand pathogens and their host

  Inés Romero-Brey (University of Heidelberg) – 3D cell nanostructure upon viral infection

  Andreas Hocke (Charité, Berlin) – Imaging of host pathogen interaction in human lungs

  Gudrun Wibbelt (IZW, Berlin) – Emerging viral diseases in red squirrels from Germany

12:00 Lunch & Coffee

13:00  Microscopy in the Research of Infectious Diseases

  Jean Pierre Baudoin (Aix Marseille University, Marseille) - Gulliver’s travel to Marseille: electron microscopy studies of giant viruses

  Monica Hagedorn (Jacobs University Bremen) – Dictyostelium discoideum, a model system to dissect host-pathogen interactions

  Manfred Rohde (Helmholtz Center for Infection Research, Braunschweig) - „Kinetic studies” with field emission scanning electron microscopy in pathogen research

  Christoph Schaudinn (Robert Koch Institute, Berlin) – Bacterial Biofilms

16:00  Summary & Closing of the Workshop
Poster Presentations:

Giusy Cardeti (Istituto Zooprofilattico Sperimentale del Lazio e della Toscana, Rome) - The Role of EM for the diagnosis of viruses in some terrestrial and marine mammals.