

WORKSHOP**“Towards standardized pathogen measurements”**

Date: 10. October, 2024

Venue: PTB Berlin, Charlottenburg, Hermann von Helmholtz Lecture Hall

Agenda

09:00-09:15 Welcome (Prof. Dr. Tobias Schäffter, Head of Berlin Institute, PTB (Germany))

Session 1 (Chair: Dr. Esmeralda Valiente)

09:15-10:00 „Quality assurance and standardization in molecular diagnostics of infections - Results from international IFCC surveys“ Prof. Parviz Ahmad-Nejad, Helios Universitätsklinikum Wuppertal (Germany)

10:00-10:25 „Ensuring accuracy in the development and application of bioanalytical diagnostic tests for infectious disease“ Dr. Jim Huggett, LGC-NML (UK)

10:25-10:50: Coffee break

10:50-11:15: „Antimicrobial susceptibility testing of veterinary pathogen bacteria: possibility and needs“ Dr. Heike Kasper, BVL (Germany)

Session 2 (Session Chair: Dr. Megan Cleveland)

11:15-11:40: „Protein reference material development for increased confidence in COVID-19 testing“. Dr. Bradley Stocks, NRC (Canada)

11:40-12:05 „Advanced molecular diagnostics for the detection of high risk pathogens: exploring new technologies for scalable, rapid, on-site pathogen detection“ Dr. Andreas Puyskens, RKI (Germany)

12:05-12:30 „Boosting Accuracy in Viral Load measurements with a Powerful Duo: Isotope Dilution Mass Spectrometry and Digital Droplet PCR“ Mrs. Yan Yan Beer, PTB (Germany)

12:30-12:55 „Standardisation of Genome Amplification Techniques (SoGAT): current challenges in harmonising measurement for NAT based diagnostics“ Dr. Neil Almond, MHRA (UK) (online)

12:55-13:40: Lunch break

Session 3 (Session Chair: Dr. Bradley Stocks)

13:40-14:05 „Challenges in standardized pathogen identification and quantification in patient samples“ Prof. Dr. Udo Reischl, INSTAND (Germany) (online)

14:05-14:30 „The challenges in preparation of control materials for small inter-laboratory comparisons: case studies of MPXV and *Listeria monocytogenes*“, Dr. Alexandra Bogožalec Košir, NIB (Slovenia)

14:30-14:55 „Reliable quantification of control samples for the virus genome detection to assess laboratory performance in EQA schemes“, Dr. Annemarie Martin, GDB (Germany)

14:55-15:20 „Synthetic Nucleic Acids as Reference Materials for Emerging Viruses“
Dr. Megan Cleveland, NIST (USA)

15:20-15:45: Final discussion

For questions, please contact: esmeralda.valiente@ptb.de