Physikalisch-Technische Bundesanstalt
Nationales Metrologieinstitut

HELMHOLTZ FONDS e.V.

WORKSHOP

Metrology Needs for Next Generation Sequencing ?

Date: 28.September, 2023
Venue: PTB Berlin, Charlottenburg, Hermann von Helmholtz Lecture Hall
Registration: https://eveeno.com/ngs2023

Agenda

10:00-10:15 Welcome

10:15-10:40 „Aspects of quality assurance in Next Generation Sequencing“ Prof. Dr. med. Parviz Ahmad-Nejad, Helios Universitätsklinikum Wuppertal, Germany (Keynote speaker)

10:40-11:05 „Applying metagenomics for real time outbreak investigation“ Prof. Jacob Moran-Gilad, Ben-Gurion University of the Negev, Israel.

11:05-11:30 „Sequins - dPCR-traceable DNA standards for quantitative metagenomics” Dr. Kai Stoelting, METAS, Switzerland.

11:30-11:45 Coffee break

11:45-12:10 „NGS Technologies and Applications – a genomics technology platform perspective” Dr. Janine Allmüller, Berlin Institute of Health at Charité– Universitätsmedizin Berlin Max Delbrück Center for Molecular Medicine, Germany

12:10-12:35 „Development of metrology to support genomic NGS profiling for early cancer detection and precision medicine (GenomeMET)” Dr. Carole Foy, NML (LGC), UK

12:35-13:00 „Navigating analytical and regulatory hurdles for the clinical implementation of ultrasensitive sequencing in precision oncology“
Stefan Filges, Simsen Diagnostics AB, Gothenburg, Sweden

13:00-14:00 Lunch break

14:00-14:25 „The complementary nature of droplet digital PCR and Next Generation Sequencing“ Dr. Adam Corner, Bio Rad, UK

14:25-14:50 „Understanding sources of error in NGS with Genome in a Bottle benchmarks” Dr. Justin Zook, NIST, USA

14:50-15:15 „Measurement uncertainty in clinical NGS”
Dr. Nathaniel Storey, NHS, UK

15:15-15:45 Final discussion

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