



Metrology for (multi)-omics measurements in clinical diagnostics

9-12 March 2026

Agenda

Session 1: Metrology for genomics, epigenomics and transcriptomics		
9 th March 2026, 13:00 – 15:50h		
Session Chair: Jim Huggett, NML@LGC		
Time (CET)	Title	Speaker
13:00	Welcome and opening of the workshop	Sang-Ryoul Park CCQM President
13:05	Biometrology Enhances the Accuracy and Reliability of Omics Data	Lianhua Dong NIM China
13:35	Understanding biology, analytical requirements, standardization of workflows and quality assurance for reliable plasma ctDNA testing	Stefan Holdenrieder DHM
14:05	Can we trust RNA quantification? A case for meticulous standardization	Jo Vandesompele University Ghent
14:35	Missing modifications - direct and indirect measurements of DNA damage	Martin Taylor University of Edinburgh
15:05	Understanding Sources of Bias with Genome in a Bottle Benchmarks	Justin Zook NIST
15:35	Panel discussion	
Session 2: Metrology for proteomics		
10 th March 2026, 13:00 – 16:15h		
Session Chair: Claudia Swart, PTB		
Time (CET)	Title	Speaker
13:00	The Measure of Confidence: Anchoring Proteomics in Metrological Rigor	Ashley Green NIST
13:30	Precision Proteomics: Bridging the Gap Between Discovery and Absolute Quantification	Ireshyn Govender CSIR
14:00	<i>Not in Kansas anymore</i> : changes in proteomics measurements on the journey from discovery to translation or from one method to the next	Dana Pascovic CSIRO
14:30	Circulating Blood Proteomics: Contamination and Standardization	Tiannan Guo Westlake University
15:00	„Sweet” matters - Glycoproteomic strategies in anti-viral infection research	Lothar Jänsch HZI
15:30	tba	Markus Ralser Charité
16:00	Panel discussion	

Session 3: Metrology for metabolomics and lipidomics

11th March 2026, 13:00 – 15:45h

Session Chair: Maria Fernandes-Whaley, NMISA

Time (CET)	Title	Speaker
13:00	Development and Use of Reference Materials for High Quality Omics Data	Clay Davis NIST
13:30	Metabolomics in Laboratory Medicine: Present Realities and Emerging Horizons	Elie Fux Roche
14:00	Ensuring Comparable and Reliable Measurements in Clinical Metabolomics: From Diagnostics to Untargeted Profiling	Ilse Du Preez National Metabolomics Platform
14:30	Clinical lipidomics: promises and pitfalls	Anne K Bendt National University of Singapore
15:00	Untargeted Metabolomics in Patient Testing: The Use of Complex Calibrator Samples	Annie Evans Metabolon
15:30	Panel discussion	

Session 4: Metrology for multiomics and discussion on role of metrology in (multi)omics measurements

12th March 2026, 13:00 – 15:45h

Session Chair:

Time (CET)	Title	Speaker
13:00	The Irreproducibility Crisis of Multiomic Data: An Urgent Need for Biometrological Solutions	Leming Shi Fudan University
13:30	Summary of session on genomics, epigenomics and transcriptomics	Jim Huggett NML@LGC
13:45	Summary of session on proteomics	Claudia Swart PTB
14:00	Summary of session on metabolomics and lipidomics	Maria Fernandes-Whaley NMISA
14:15	Discussion on future role of metrology in omics	all