

Metrology for (multi)-omics measurements in clinical diagnostics

9-12 March 2026

Agenda

Session 1: Metrology for genomics, epigenomics and transcriptomics

9th March 2026, 13:00 – 15:45h

Session Chair: Jim Huggett, NML@LGC

Time (CET)	Title	Speaker
13:00	Biometrology Enhances the Accuracy and Reliability of Omics Data	Liuhana Dong NIM China
13:30	tba	Stefan Holdenrieder DHM
14:00	Can we trust RNA quantification? A case for meticulous standardization	Jo Vandesompele University Ghent
14:30	tba	Martin Taylor University of Edinburgh
15:00	Understanding Sources of Bias with Genome in a Bottle Benchmarks	Justin Zook NIST
15:30	Panel discussion	

Session 2: Metrology for proteomics

10th 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	tba	Tiannan Guo West Lake University
15:00	„Sweet“ matters - Glycoproteomic strategies in anti-viral infection research	Lothar Jänsch HZI
15:30		Markus Ralser Charité
16:00	Panel discussion	

Session 3: Metrology for metabolomics and lipidomics

11th March 2026, 13:00 – 15:45h

Session Chair: Maria 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	Lipidomics: promises and pitfalls	Anne-Kathrin Bendt National University of Singapur
15:00	tba	tba
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 Whaley NMISA
14:15	Discussion on future role of metrology in omics	all