Accurate Results for Patient Care Workshop 2017
International Bureau of Weights and Measures (BIPM), Paris, France
4 and 5 December 2017

Aim of the workshop
The workshop will look at a wide range of global initiatives to reduce between-method variability as a means to support improved clinical outcomes and patient safety. Interaction between the speakers and the audience will be a feature.

Target audience
The workshop is open to all individuals and groups with an interest in traceability and method standardization or harmonization. These include laboratory medicine specialists, EQA providers, IVD manufacturers and national metrology institutes. Participants will be able to display posters of their work to share with peers and experts.

Day 1 Workshop on ‘Traceability in Action’
• Keynote lecture on the importance of traceability to patients
• Symposium on the importance of traceability in external quality assessment (EQA) programmes
• Symposium on traceability and the IVD industry: the manufacturer’s role

Day 2 Workshop on ‘Traceability into the Future’
• Symposium on clinical challenge of biomarkers in neurodegenerative disease
• Symposium on future developments in infectious diseases and traceability in laboratory medicine and wide-ranging reports of new initiatives from around the world

A JCTLM Members’ and Stakeholders’ meeting
www.jctlm.org - The Joint Committee for Traceability in Laboratory Medicine (JCTLM) is working with many global partners to reduce between-method variability. The production and adoption of reference materials, reference methods and the establishment of reference laboratories are drivers for accurate patient results.

The workshop website can be found at: www.bipm.org/en/committees/jc/jctlm/workshop-2017.html
## Programme

### Day 1: Monday 4 December: Traceability in Action

#### Session 1: JCTLM update.
- Welcome and introduction: James McLaren (CIPM)
- Chair: Gary Myers (JCTLM Chair)
- Report from Chair of Executive Committee:
  - Structure and organization: Gary Myers (JCTLM Chair)
  - The JCTLM database: developments and status: Robert Wielgosz (BIPM)
- Traceability, education and promotion:
  - Definitions: Robert Wielgosz (BIPM)
  - Resources to explain scientific concepts: Elvar Theodorsson (Eurachem)
  - Meetings, publicity and promotion: Graham Beastall (IFCC)
- Discussion

#### Session 2: Keynote Lecture.
- Why traceability matters to patients?: Graham Jones (ILAC)
- Discussion

#### Session 3: Traceability in external quality assessment.
- Why traceability is important to EQA providers?: Piet Meijer (EQALM)
- How we ensure traceability in EQA and stress its importance to users:
  - WEQAS (Wales External Quality Assessment Scheme): David Ducroq (WEQAS)
  - ProgBA (Buenos Aires External Quality Assessment Scheme): Silvia Quiroga (ProgBA)
  - RCPAQAP (RCPA Quality Assurance Programs): Tony Badrick (RCPAQAP)
  - International EQA surveys for calibration laboratories: Anja Kessler (RfB)
- Plenary discussion

#### Session 4: Traceability and the IVD Industry: the manufacturer’s role.
- Overview of importance to the IVD industry: David Armbruster
- ISO 17511:2003 - Traceability of values assigned to IVD calibrators and controls:
  - a progress report on revisions underway in ISO/TC212: Neil Greenberg (Convenor, ISO/TC212/WG2)
  - Plenary discussion: tbd

#### Session 5a: Clinical Challenge – Biomarkers in neurodegenerative disease.
- Potential clinical applications of biomarkers of neurodegenerative disease: Sergio Bernardini (University of Rome Tor Vergata)
- Preanalytical and analytical aspects of CSF biomarker assays:
  - Reference method for b-amyloid in CSF: Armand Perret-Liaudet (Lyon University Hospital)
  - Role of metals and metal containing biomolecules in neurodegenerative diseases such as Alzheimer’s disease: Josef Pannee (Inst. of Neuroscience & Physiology, Sweden)
- Plenary discussion

#### Session 5b: Clinical Challenge – Biomarkers in neurodegenerative disease.
- The EMPR project NeuroMET: metrology for improved diagnosis and management of neurodegenerative diseases: Milena Quaglia (LGC)
- LCMS methods and traceability of CSF biomarker measurements:
  - Reference method for b-amyloid in CSF: Clauda Swart (PTB)
  - Plenary discussion: Chiara Giangrande (LNE)

#### Session 6a: Future developments in laboratory medicine and the implications for traceability.
- Infectious diseases:
  - Application of dPCR for reference measurements in infectious disease diagnostics and anti-microbial resistance monitoring: Jim Huggett (LGC)
  - EQAs in microbiology and standardization of MRSA testing: Parviz Ahmad-Nejad (HELIOS Universitätsklinikum Wuppertal)
  - Quantitative measurement and imaging of drug-uptake by bacteria with antimicrobial resistance (EMPIR project “MetVBadBugs“): Paulina Rakowska (NPL)
  - New developments in the Standardization of Gene Amplification Techniques (SoGAT): Neil Almond (NIBSC)
- Plenary discussion

#### Session 6b: Future developments in laboratory medicine and the implications for traceability.
- The National Infrastructure for Traceability in Laboratory Medicine in China: Hongmei Li (NIM)
- "Standardization of multiple serum apolipoproteins using bottom-up quantitative proteomics“ on behalf of the IFCC Scientific Division WG-AP0 MS: Christa Cobbaert (Leiden University Medical Centre)
- HbA1c measurement by IDMS – current situation and future development: Qiinde Liu (HSA)
- Certified reference materials for ensuring traceability: From experience with steroids and peptides: Akiko Takatsu (NMIJ)
- Certified Reference Materials for Prenatal Genetic Testing: Ji-Seon Jeong (KRISS)
- Providing traceability for protein biomarkers: Karen Phinney (NIST)
- Challenges of Implementing JCTLM methods in the routine Clinical Laboratories: Ravinder Singh (Mayo Clinic)
- Plenary discussion

#### Session 7: Responding to the future of traceability.
- Chair: Gary Myers
- Plenary discussion