P-1: Comparison of human serum 17β-estradiol quantification using the ID-LC-MS/MS assay with the chemiluminescent immunoassays  
Dr Qiaoxuan Zhang, Guangdong Provincial Hospital of Chinese Medicine (GPHCM), China

P-2: Measurement of 17- hydroxyprogesterone and cortisol in dried blood spot by liquid chromatography-tandem mass spectrometry as a candidate confirmatory test for congenital adrenal hyperplasia  
Dr Liqiao Han, Guangdong Provincial Hospital of Chinese Medicine (GPHCM), China

P-3: Standardization of Anti-Mullerian Hormone immunoassays – Development of a mass-assigned standard for a complex protein  
Dr Gail Whiting, National Institute for Biological standards and Control (NIBSC), United Kingdom

P-4: Establishment of the reference method and implementation of the traceability for HbA1c in human blood  
Prof. Junqing Wang, Maccura Biotechnology Co., Ltd., China

P-5: Standardization and improvement program for creatinine measurement in human serum  
Dr Hugo Gasca-Aragon, Centro Nacional de Metrologia (CENAM), Mexico

P-6: Vitamin D metabolite measurement service at NIST: past, present and future  
Dr Carolyn Burdette, National Institute of Standards and Technology (NIST), United States of America

P-7: MicroRNAs analysis to monitor Alzheimer disease by minimally invasive methods based on digital PCR: preliminary results of the NeuroMET project  
Dr Carla Divieto, Istituto di Ricerca Metrologica (INRIM), Italy

P-8: Diagnosis of metrological traceability of chain 1 in a group of clinical laboratories in Colombia  
Dr Aida Porras-Caicedo, Quik, Colombia

P-9: Refining the interpretation of ferritin in the diagnosis of iron deficiency  
Prof. Paul Yip, University Health Network (UHN), Canada

P-10: Data mining of sequential patient data streams can demonstrate inadequacy of calibration in blood gas analyzers  
Prof. George Cembrowski, Department of Laboratory Medicine and Pathology, University of Alberta, Canada
## Programme

### Session 1: JCTLM update.
- Welcome and introduction
  - James McLaren (CIPM)

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

### Session 3: Traceability in external quality assessment.
- Chair: Tony Badrick (RCPAQAP)
- Why traceability is important to EQA providers?
  - Piet Meijer (EQALM)
- How we ensure traceability in EQA and stress its importance to users
  - Chair: Tony Badrick (RCPAQAP)
  - 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)

### Session 4: Traceability and the IVD Industry: the manufacturer’s role.
- Chair: David Armbruster
  - Overview of importance to the IVD industry
  - ISO 17511:2003 - Traceability of values assigned to IVD calibrators and controls: a progress report on revisions underway in ISO/TC212
  - IVD Regulation implications
  - Plenary discussion

### Session 5a: Clinical Challenge – Biomarkers in neurodegenerate disease.
- Chair: Graham Beastall (IFCC)
- Potential clinical applications of biomarkers of neurodegenerative disease
- Preanalytical and analytical aspects of CSF biomarker assays
- Reference method for b-amyloid in CSF
- Role of metals and metal containing biomolecules in neurodegenerative diseases such as Alzheimer’s disease

### Session 5b: Clinical Challenge – Biomarkers in neurodegenerate disease.
- Chair: Graham Beastall (IFCC)
- The EMPIR project NeuroMET: metrology for improved diagnosis and management of neurodegenerative diseases
- LCMS methods and traceability of CSF biomarker measurements
- Plenary discussion

### Session 6a: Future developments in laboratory medicine and the implications for traceability.
- Chair: Elvar Theodorsson
- Infectious diseases
  - Application of dPCR for reference measurements in infectious disease diagnostics and anti-microbial resistance monitoring
  - EQAs in microbiology and standardization of MRSA testing
  - Quantitative measurement and imaging of drug-uptake by bacteria with antimicrobial resistance (EMPIR project “MetVBadBugs”)
  - New developments in the Standardization of Gene Amplification Techniques (SoGAT)

### Session 6b: Future developments in laboratory medicine and the implications for traceability.
- Chair: Elvar Theodorsson
- Traceability and the future of laboratory medicine: a global perspective
- 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 M5
  - Christa Cobbaert (Leiden University Medical Centre)
- HbA1c measurement by IDMS – current situation and future development
  - Qiande 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-Seong Jeong (KRISS)
- Providing traceability for protein biomarkers
  - Karen Phinney (NIST)
- Challenges of Implementing JCTLM methods in the routine Clinical Laboratories
  - Ravinder Singh (Mayo Clinic)

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