IFCC SPEAKERS BUREAU

You may choose from the following list of topics (or suggest a different topic) for the IFCC VLP or any other educational programme that is being planned. The names of recommended speakers are given next to each topic. However, you may nominate your own speaker.

❖ Accreditation

• Challenges in the process of implementation of ISO 15189
• Essential audit criteria of ISO 15189, which I should know and are not in the Standard
• Guidelines for blood collection

• Impact of ISO 15189 Accreditation on patient safety
• ISO 15189
• ISO 15189, Audits
• ISO 15189, Audits
• ISO 15189, Audits
• ISO 15189, Audits
• ISO 15189 accreditation of medical laboratories
• ISO 15189 accreditation of medical laboratories
• ISO 15189 accreditation of medical laboratories
• ISO 15189, ISO 9001
• ISO 15189, Method Evaluation and Quality Management
• ISO 15189 accreditation of medical laboratories and blood banks
• ISO 15189 - Documentation, policies, plans, processes, procedures and records
• ISO 15189 - Documentation, policies, plans, processes, procedures and records
• ISO 15189 - Pre examination, examination and post examination processes
• ISO 15189 - Planning process and implementation
• ISO 15189 accreditation of medical testing laboratories
• ISO 22870
• ISO 22870 - POCT and responsibility of the laboratory
• ISO 15189 Accreditation: costs and benefits
• ISO 20658:2017

Suggested Speakers

Dr. Alba Cecilia Garzon (Colombia)
Dr. Alba Cecilia Garzon (Colombia)
Dr. Gabriel Lima-Oliveira (Brazil)
Dr. Alba Cecilia Garzon (Colombia)
Dr. Bernard Gouget (France)
Bioq. Christina Herrera (Chile)
Bioq. Roberto Carboni (Chile)
MSc. Thamara Andrade (Ecuador)
Dr.M.del Carmen Pasquel Carrera (Ecuador)
Dr. Milena Monari (Chile)
Dr. Rosa Sierra-Amor (Mexico)
Dr.M.del Carmen Pasquel Carrera (Ecuador)
Prof. Mario Plebani (Italy)
MSc. Patricia Hernandez (Mexico)
Dr. Sandra Quintana (Mexico)
ME. Jezabel Vite (Mexico)
Dr. Herbert Stekel (Austria)
Dr.M.del Carmen Pasquel Carrera (Ecuador)
Dr. Herbert Stekel (Austria)
Dr.M.del Carmen Pasquel Carrera (Ecuador)
Prof. Paivi Laitinen (Finland)
Dr. Bernard Gouget (France)
Dr. Herbert Stekel (Austria)
Prof. Ken Sikaris (Australia)
Dr. Gabriel Lima-Oliveira (Brazil)

Language

Spanish
Spanish
Portuguese, English, Spanish, Italian
Spanish
French, English
Spanish
Spanish
Spanish
Spanish
Italian, English
Spanish
Spanish, English
Spanish
Spanish
Spanish
English
Finnish, English
French, English
German, English
English
Portuguese, English, Spanish, Italian
Accreditation
- Laboratory accreditation audits
- Preanalytical errors
- Quality systems
- Risk Management and its implementation in ISO 15189
- The assessment process

Analytical chemistry
- Analytical Chemistry
- Analytical Methods evaluation/verification
- HPLC

Autoimmunity
- ANA HEP-2 cytoplasmic patterns – recognition on the microscope and clinical importance
- ANA testing in "real life"
- ANCA-associated vasculitis – diagnostic guidelines and critical analysis of the laboratory assays
- Anti Ro52 reactivity is an independent and additional serum marker in connective tissue diseases
- Autoantibodies as tools for cellular and molecular research
- Autoantibodies in systemic inflammatory rheumatic diseases: an update on what is new and important
- Autoantibody standardization committee: How do we make old and new ANA standards
- Biomarkers of subcutaneous calcinosis in systemic sclerosis and inflammatory myopathies
- Bringing the autoimmunity lab and the clinician together – how to bridge the extremes
- Dense fine speckled ANA IIF pattern (AC-2) and anti-DFS70 antibodies: cleaning up the current concepts
- ICAP Consensus in ANA Reporting: everything you need to know
- Immunobiology of subcellular autoantigenic rods/rings structures (IMPDH filaments)
- International Consensus of ANA Patterns: how to interpret findings in the lab and for the clinician
- Serum calprotectin: what do we have to know?
- Subcellular rods/rings as targets of autoantibodies in HCV therapy
- The new era of the ICAP nomenclature: an Italian experience
- The long road and the experience from the Brazilian Consensus in HEP-2 Patterns to ICAP
- The current status of the International Consensus on Anti-nuclear antibody Patterns (ICAP) and future directions

Suggested Speakers
Q. Victor Baltazar (Mexico)
MD Abraham Marcel (Cuba)
Dr. Veronica Luzzi (US)
Dr. Alba Cecilia Garzon (Colombia)
Dr. Herbert Stekel (Austria)

Suggested Speakers
Prof. Sergio Bernardini (Italy)
Dr. Veronica Luzzi (US)
Bioq Eduardo Aranda (Chile)

Suggested Speakers
Dr. Carlos a. von Mühlen (US)
Dr. Maria Infantino (Italy)
Dr. Carlos a. von Mühlen (US)
Dr. Carlos A. von Mühlen (US)
Dr. Carlos A. von Mühlen (US)
Dr. Maria Infantino (Italy)
Dr. Carlos A. von Mühlen (US)
Dr. Maria Infantino (Italy)
Dr. Carlos A. von Mühlen (US)
Dr. Maria Infantino (Italy)

Language
Spanish
Spanish, English
Spanish
German, English
Italian, English, French
Spanish, English
Spanish

Language
Italian, English, French
Spanish, English
Spanish

Language
English, Spanish, Portuguese
Italian, English
English, Spanish, Portuguese
Italian, English
English, Spanish, Portuguese
Italian, English
English, Spanish, Portuguese
Italian, English
English, Spanish, Portuguese
Italian, English
English
Autoimmunity
- Update on autoantibodies in idiopathic inflammatory myopathies

Biological variations
- How to establish biological variation data
- How to use biological variation data to 1) set performance specifications 2) monitor patients 3) generate personal reference intervals

Blood Gas
- Blood Gas
- Blood Gases and emergency
- Evolution of Blood Gas Analysis – Acid-Base Balance and Practical Applications of the Acid-Base Chart
- Evolution of Blood Gas Analysis – Focusing on the Source of Impaired O2 Supply to the Tissue
- New biosensors
- New devices
- New technologies (in vitro, ex vivo and in vivo)
- Pathophysiology of blood gases
- Value of Point of Care Blood Gas Testing

Bone, Calcium and Vitamin D Metabolism
- Assessment of mineral bone metabolism and vitamin D in adult
- Bone calcium and Vitamin D Metabolism
- Vitamin D metabolism and impact on health
- Vitamin D Assays
- Vitamin D

Cancer
- Basic informatics for molecular cancer profiling
- Basic principles of epigenetics and epigenetic regulation in cancer therapy
- Blood and non-blood sources of cell-free DNA (cfDNA) for non-invasive cancer molecular profiling
- Cancer biomarkers
- Circulating tumor DNA: A promising biomarker in the liquid profiling of cancer
- Circulating tumor DNA: current analytical validity, clinical validity and utility
- Clinical applications of cancer molecular biomarkers
- Clinical applications of cancer molecular biomarkers
- Effects of TNF related Apoptosis Inducing Ligand (TRAIL) on apoptosis in cancer cells
Cancer

- Hybrid Compounds as Multitarget Directed Anticancer Agents
- Human b in CG
- Interpreting tumour marker results
- Implementing cancer molecular profiling
  Likelihood ratios - a more informative way of reporting laboratory results:
  studies with tumour markers
- Liquid biopsy: Circulating free DNA (cfDNA) and Circulating Tumour Cells (CTC) as Novel Biomarkers
- Liquid profiling assays in the era of precision oncology: Current status of assay limitations and future development
- Natural Product Inhibitors of Histone Deacetylases as New Anticancer Agents
- PSA and other members of the kallikrein family
- Seminal Cell-Free DNA Assessment as a Novel Prostate Cancer Biomarker
- Tumour marker reference intervals
- Understanding PSA refinements: age related reference intervals
  F/T PSA ratio and PSA doubling time

Cardiovascular Biochemistry

- Assay-related issues in the measurement of cardiac troponins and natriuretic peptides
- Cardiovascular biomarkers
- Cardiac Biomarkers: an evidence based approach to utilization
- Cardiac biomarkers: all analytical & clinical topics
- Cardiac markers in chronic kidney disease
- Cardiac biomarkers
  - Cardiovascular disease: Pathophysiology and Laboratory Assessment
  - Cardiovascular Diseases in chronic renal diseases and diabetes mellitus
  - Coronary heart disease biomarkers
  - CRP and inflammatory markers
  - Diagnosing myocardial injury and myocardial infarction
  - Evidence based cardiac biomarker testing
  - High sensitivity troponin for early MI rule out
  - High-sensitivity troponin: rule-in and rule-out strategies
  - Ischemia-modified albumin
  - Natriuretic peptide measurement: current use, future promise
  - Novel biomarkers of cardiac risk and management
  - Novel biomarkers for acute cardiovascular disease
Cardiovascular Biochemistry
- Oxidative stress, inflammation, and endothelial injury in accelerated atherosclerosis
- Potential risk predictors for cardiovascular diseases in patients with obstructive sleep apnea syndrome
- Rapid rule in and out using cardiac biomarkers
- The basics of cardiac biomarker interpretation
- Understanding the relationship between cholesterol and insulin resistance.
- Vascular markers of Atherosclerosis

Cerebral diseases
- Inflammatory response of the brain following cerebral ischemia
- Neuro inflammation and anti-inflammatory treatment options for Alzheimer’s disease
- Pathophysiology of Cerebral Ischemia. Mechanisms Involved in Neuronal Damage

Cerebrospinal Fluid
- CSF bilirubin, xanthochromia and detection of subarachnoid haemorrhage
- Cerebrospinal fluid

Chronic Kidney Disease
- Diagnostic proteomic markers to detect kidney diseases
- Estimating glomerular filtration rate from serum creatinine measurements: analytical issues and standardisation programs
- Non traditional cardiovascular disease risk factors and arterial inflammatory response in end-stage renal disease
- Protein carbamylation and carbamylation derived products as biomarkers

Clinical Usefulness of Analytes
- Adding clinical utility to laboratory reports
- Biomarkers associated with COVID 19 disease progression
- Coenzyme Q10 - evidence base for a clinically useful analyte
- C.difficile and Antimicrobial Stewardship
- Hepatopathies in patients with dengue
- Hemostasia, platelets function
- Is this assay clinically useful - the paradigm of natriuretic peptides
- Iron Metabolism
- Public Health & Hospital Administration, Sciences Communication, Antimicrobial Resistance

Value and Impact of Laboratory Medicine in Healthcare
- Value and Impact of Laboratory Medicine for human health
- Value and Impact of molecular testing
- Why Knowing Now Matters in the ED
- Zica Virus update in Latin America
<table>
<thead>
<tr>
<th>Section</th>
<th>Suggested Speakers</th>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td><strong>Covid-19</strong></td>
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<tr>
<td>Molecular, Biochemical and Serological Testing of COVID-19</td>
<td>Dr. Khosrow Adeli (Canada)</td>
<td>English</td>
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<tr>
<td>Pathophysiology of COVID-19 and Mechanisms Underlying Progression to Death</td>
<td>Dr. Khosrow Adeli (Canada)</td>
<td>English</td>
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<tr>
<td><strong>Cytokines</strong></td>
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<tr>
<td>Cybernetics of cytokines and chemokines: pathophysiology and clinical applications</td>
<td>Prof. Christopher Lam (Hong Kong)</td>
<td>English</td>
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<tr>
<td>Leptin and adiponectin in insulin resistance</td>
<td>Prof. Edgard Delvin (Canada)</td>
<td>French, English</td>
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<tr>
<td>Physiology and Laboratory Assessment of Cytokines and Chemokines</td>
<td>Dr. Khosrow Adeli (Canada)</td>
<td>English</td>
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<tr>
<td><strong>Diabetes, Insulin Resistance and Metabolic Syndrome</strong></td>
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<tr>
<td>Controversies in thyroid hormones</td>
<td>Prof. Montserrat Blanes (Paraguay)</td>
<td>Spanish, English</td>
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<tr>
<td>IFCC recommendation on reporting results for blood glucose &amp; sources of error in glucose POCT</td>
<td>Dr. Ellis Jacobs (US)</td>
<td>English</td>
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<tr>
<td>Diabetes: metabolic and genetic characteristics related-Lipids</td>
<td>Dr. Julio Lara (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>Diabetes mellitus (markers, HbA1c, advanced glycation end products)</td>
<td>Prof. Philippe Gillery (France)</td>
<td>French, English</td>
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<tr>
<td>Diabetes and the role of the Laboratory</td>
<td>Dr. Herbert Stekel (Austria)</td>
<td>German, English</td>
</tr>
<tr>
<td>Diabetes is an Intestinal Disease: Reversal of Diabetes by Bariatric Surgery</td>
<td>Dr. Khosrow Adeli (Canada)</td>
<td>English</td>
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<tr>
<td>Diabetic glucose monitoring in 2010: a testing odyssey implementation</td>
<td>Dr. Ellis Jacobs (US)</td>
<td>English</td>
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<tr>
<td>Diabetes: testing and autoantibodies</td>
<td>Dr. Damien Gruson (Belgium)</td>
<td>French, English</td>
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<tr>
<td>eAG and the correlation of HbA1c and glucose</td>
<td>Prof. Ken Sikaris (Australia)</td>
<td>English</td>
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<tr>
<td>HbA1c for screening and diagnosis of diabetes</td>
<td>Prof. Ken Sikaris (Australia)</td>
<td>English</td>
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<tr>
<td>Insulin resistance Type 2 Diabetes</td>
<td>Dr Miguel Cruz (Mexico)</td>
<td>Spanish, English</td>
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<tr>
<td>Laboratory assessment of insulin resistance</td>
<td>Dr. Khosrow Adeli (Canada)</td>
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<td>Leptin and adiponectin in insulin resistance</td>
<td>Prof. Edgard Delvin (Canada)</td>
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<tr>
<td>Metabolic syndrome in adolescent children and adults</td>
<td>Prof. Montserrat Blanes (Paraguay)</td>
<td>Spanish, English</td>
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<tr>
<td>Pediatric obesity, prediabetes and metabolic syndrome</td>
<td>Dr. Khosrow Adeli (Canada)</td>
<td>English</td>
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<tr>
<td>Pathophysiology of diabetic dyslipidemia</td>
<td>Dr. Julio Lara (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>POC testing for monitoring and diagnosing diabetes mellitus</td>
<td>Prof. Sverre Sandberg (Norway)</td>
<td>Norwegian, Danish</td>
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<tr>
<td>Post-translational modification of proteins (glycation - glycoxidation - carbamylation)</td>
<td>Prof. Philippe Gillery (France)</td>
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<tr>
<td>Post-prandial Dyslipidemia in Obesity &amp; Insulin Resistance</td>
<td>Dr. Khosrow Adeli (Canada)</td>
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<td>Self-monitoring of blood glucose</td>
<td>Prof. Sverre Sandberg (Norway)</td>
<td>Norwegian, Danish</td>
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<tr>
<td>The effect of hemodialysis on accelerated atherosclerosis in diabetic patients</td>
<td>Prof. Tomris Ozben (Turkey)</td>
<td>Turkish, English</td>
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<tr>
<td>Small dense Low-Density Lipoprotein as Biomarker for Atherosclerotic Diseases</td>
<td>Dr. Julio Lara (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>The metabolic syndrome in youth and polymorphic genes</td>
<td>Prof. Edgard Delvin (Canada)</td>
<td>French, English</td>
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<tr>
<td><strong>Education and communication</strong></td>
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<tr>
<td>Online education</td>
<td>Dr. Eduardo Freggiaro (Argentina)</td>
<td>Spanish, English</td>
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<tr>
<td>IT and new technologies of information and communication</td>
<td>Dr. Eduardo Freggiaro (Argentina)</td>
<td>Spanish, English</td>
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</tbody>
</table>
### Emerging technologies
- A new era of Communication in Medical Diagnostics & Clinical Laboratory Medicine
- Artificial intelligence
- Big data
- E-health
- Electronic Apps and Medical Diagnostics Data Management
- Emerging technologies and chronic diseases
- Mobile health
- Mobile health and digitalization
- Technological advances in Laboratory Medicine: Predicting the Lab of the Future

### Ethics
- Bioethics in Lab Med
- Ethics
- Ethics and AI
- Ethics and medically assisted reproduction
- Ethics and regulations
- Ethics in laboratory medicine
- Ethics in medical research

### Evidence-Based Laboratory Medicine
- Evaluation of new biomarkers
- Evidence-based guidelines in laboratory medicine
- Evidence-based guidelines in laboratory medicine
- Evidence in action - using evidence in practice
- Evidence-Based Laboratory Medicine on clinical usefulness of laboratory tests
- Evidence-Based Laboratory Medicine: one to four day workshop
- Evidence-Based Laboratory Medicine: practical examples of benefit
- Evidence-Based Laboratory Medicine: principles and promise
- Evidence-based monitoring
- Guidelines development clinical cooperation
- Harmonization of critical risk result management
- How to design alert lists of critical risk results
- How to (re)define disease definitions using laboratory tests
- Introduction to Evidence-Based Laboratory Medicine
- Introduction to Evidence-Based Laboratory Medicine
- Management of critical risk result communications
- Evidence-based Medicine and Point of Care Testing
- Outcome-based performance specifications for laboratory tests
- Overdiagnosis and overdetection in laboratory medicine
- Study design and quality of evidence for diagnostic tests

### Suggested Speakers

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<tr>
<td>English</td>
<td>Dr. Khosrow Adeli (Canada)</td>
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<td>French, English</td>
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<td>French, English</td>
<td>Dr. Damien Gruson (Belgium)</td>
<td>Italian, English</td>
<td>Dr. Mario Plebani (Italy)</td>
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<tr>
<td>French, English</td>
<td>Dr. Khosrow Adeli (Canada)</td>
<td>Turkish, English</td>
<td>Prof. Tomris Ozben (Turkey)</td>
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</tbody>
</table>

### Language

- English
- French, English
- Spanish, English
- French, English
- Italian, English
- Turkish, English
- Hungarian, English
- Hungarian, English
- Spanish, English
- Hungarian, English
- Hungarian, English
- Hungarian, English
- Hungarian, English
- Norwegian, Danish, Swedish, English

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**EMD - IFCC Speakers Bureau – Last update: January 2021**
External Quality Assessment

- EQA/PT
- EQA/PT
- EQA/PT
- EQA/PT
- EQA/PT
- External Quality Assessment in molecular diagnostics
- How to set performance specifications for EQA
- How to perform EQA/PT for POC instruments
- Why commutability matters in EQA/PT

HbA1c

- Biochemistry, Hemoglobin Variants, Analytical Methods, Standardisation, EQA/PT programmes, IFCC model for Quality targets for monitoring-diagnosis-screening
- HbA1c
- HbA1c: Analytical performance of the new enzymatic and immunoassay systems
- HbA1c Biochemistry, analytical methods, EQA/PT programmes
- HbA1c for screening and diagnosis of diabetes
- HbA1c in clinical practice
- Hemoglobin HbA1c
- Pathophysiology of Diabetes and HbA1c Monitoring
- POC testing for HbA1c

Hypertension

- Hypertension and the renin-aldosterone axis

Immunochemistry

- Immunochemistry
- Interferences with immunoassays
- Interferences in Clinical Chemistry and Immunochemistry Assays
- A practical investigation approach for detecting and solving the most common interferences in Clinical Chemistry and Immunochemistry Assays

In Vitro Fertilisation

- Stem Cells, Fetal maternal clinical chemistry
<table>
<thead>
<tr>
<th>v Laboratory Management</th>
<th>Suggested Speakers</th>
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</tr>
</thead>
<tbody>
<tr>
<td>• Appropriateness in test request and result interpretation</td>
<td>Prof. Mario Plebani (Italy)</td>
<td>English, Italian</td>
</tr>
<tr>
<td>• Architecture</td>
<td>Dr. Bernard Gouget (France)</td>
<td>French, English</td>
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<tr>
<td>• Autoverification of laboratory data</td>
<td>Dr. Ed Randell (Canada)</td>
<td>English</td>
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<tr>
<td>• Basic problem solving in laboratory management</td>
<td>Prof. Sedef Yenice (Turkey)</td>
<td>Turkish, English</td>
</tr>
<tr>
<td>• Biological variation</td>
<td>Dr. Alan Wu (US)</td>
<td>English</td>
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<tr>
<td>• Biosafety in the clinical laboratory</td>
<td>MT Levertex Ortiz (Chile)</td>
<td>Spanish</td>
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<tr>
<td>• Blood Bank</td>
<td>ME Jezabel Vite (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>• Clinical Decision Support for test requesting</td>
<td>Prof. Ken Sikaris (Australia)</td>
<td>English</td>
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<tr>
<td>• Continuous process improvement</td>
<td>Dr. Ed Randell</td>
<td>English</td>
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<tr>
<td>• Core Processes in the Laboratory</td>
<td>Dr. Herbert Stekel (Austria)</td>
<td>German, English</td>
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<tr>
<td>• Data mining as a laboratory management tool</td>
<td>Prof. Ken Sikaris (Australia)</td>
<td>English</td>
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<tr>
<td>• Developing laboratory leadership skills</td>
<td>Dr. Ed Randell (Canada)</td>
<td>English</td>
</tr>
<tr>
<td>• Economy</td>
<td>Dr. Bernard Gouget (France)</td>
<td>French, English</td>
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<tr>
<td>• Essential leadership management</td>
<td>Prof. Sedef Yenice (Turkey)</td>
<td>Turkish, English</td>
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<tr>
<td>• Extra analytical performance characteristics</td>
<td>Prof. Mario Plebani (Italy)</td>
<td>Italian, English</td>
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<tr>
<td>• Generate value in diagnostic tests Laboratory impact on medical decisions</td>
<td>Prof. Montserrat Blanes (Paraguay)</td>
<td>Spanish, English</td>
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<tr>
<td>• Guidelines for blood collection</td>
<td>Dr. Gabriel Lima-Oliveira (Brazil)</td>
<td>Portuguese, English, Spanish, Italian</td>
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<tr>
<td>• Guidelines to assess assays performances (CLSI)</td>
<td>Dr. Laura Parnas (Argentina)</td>
<td>Spanish, English</td>
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<tr>
<td>• Guidelines to assess assays performances (CLSI)</td>
<td>Dr. Veronica Luzzi (US)</td>
<td>Spanish, English</td>
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<tr>
<td>• How to imagine the future of laboratory medicine</td>
<td>Prof. Maurizio Ferrari (Italy)</td>
<td>Italian, English</td>
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<tr>
<td>• How to set analytical performance specifications</td>
<td>Prof. Sverre Sandberg (Norway)</td>
<td>Norwegian, Danish, Swedish, English</td>
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<tr>
<td>• Lab commercial networks</td>
<td>Dr. Bernard Gouget (France)</td>
<td>French, English</td>
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<tr>
<td>• Laboratory accreditation audits</td>
<td>Q. Victor Baltazar (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>• Laboratory automation system</td>
<td>Dr. Cristina Ures (Uruguay)</td>
<td>Spanish</td>
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<tr>
<td>• Laboratory Management</td>
<td>MSc Patricia Hernandez (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>• Laboratory Management, Method Evaluation</td>
<td>MT Levertex Ortiz (Chile)</td>
<td>Spanish</td>
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<tr>
<td>• Laboratory Management and Patient Satisfaction</td>
<td>MSc. Rosario Vazquez (Mexico)</td>
<td>Spanish</td>
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<tr>
<td>• Laboratory Information Systems - The Basics</td>
<td>Dr. Herbert Stekel (Austria)</td>
<td>German, English</td>
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<tr>
<td>• Laboratory Stewardship</td>
<td>Prof. Mario Plebani (Italy)</td>
<td>Italian, English</td>
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<tr>
<td>• Laboratory tests formularies</td>
<td>Dr. Ed Randell (Canada)</td>
<td>English</td>
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<tr>
<td>• Learning Laboratory Processes</td>
<td>Prof. Paivi Laitinen (Finland)</td>
<td>Finnish, English</td>
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<tr>
<td>• Laboratory Management – Process Management - Quality policy and Objectives area</td>
<td>Bioq. Roberto Carboni (Chile)</td>
<td>Spanish</td>
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<tr>
<td>• Management of preanalytical phase</td>
<td>Dr. Gabriel Lima-Oliveira (Brazil)</td>
<td>Portuguese, English, Spanish, Italian</td>
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<tr>
<td>• Management of the cost of quality</td>
<td>Prof. Sedef Yenice (Turkey)</td>
<td>Turkish, English</td>
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<td>• Management of interference in clinical laboratory analysis</td>
<td>Prof. Sedef Yenice (Turkey)</td>
<td>Turkish, English</td>
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<tr>
<td>• Measurement uncertainty</td>
<td>Dr. Herbert Stekel (Austria)</td>
<td>German</td>
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<tr>
<td>• Method comparison</td>
<td>Dr. Herbert Stekel (Austria)</td>
<td>German</td>
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Laboratory Management

- Method Evaluation
- Method Evaluation and Quality management
- Method Evaluation and Quality assurance
- Method Evaluation and Quality management, Lab Management
- Method Evaluation, Total Quality Management plan, Guidelines to assess assays performances (CLSI)
- Outcome evaluation
- Patient safety
- Planning Laboratory Automation
- Preanalytical variables for clinical laboratory tests
- Preanalytic Errors
- Professional exercise biochemical impact on clinical management
- Project management
- Project management
- Promotion of clinical laboratory testing to the general public
- Quality Indicators
- Quality indicators
- Quality issues in the laboratory
- Removal of antiquated clinical laboratory tests
- Risk management
- Small Dense Low-Density Lipoprotein as Biomarker for Atherosclerotic Diseases
- Strategic planning
- Strategic planning
- Technical problems influencing clinical interpretation
- Team management
- The future of molecular biology in the diagnostic laboratories
- Quality management system set up
- Use of delta checks in medical laboratory
- Usefulness of External quality control / Proficiency testing
- Usefulness and external quality control/PT
- Understanding extreme results and the definition critical limits
- Utilization management of laboratory services

**Lipids**

- Fatty acid profiles of cancer cell membrane: the signal transduction pathways and effects of chemotherapeutics and antioxidants
- Intestinal lipid absorption and metabolism
- Intestinal lipid absorption and metabolism
- Lipid Guidelines for Cardiovascular Risk Stratification: fasting or non-fasting lipid profiles
- Lipid and Lipoprotein Metabolism and Physiology

**Suggested Speakers**

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<tr>
<th>Language</th>
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<tr>
<td>Spanish</td>
<td>Patricia Hernandez (Mexico)</td>
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</tbody>
</table>
### Lipids
- Lipids and lipoproteins
- Lipid Lowering Therapies: Statins, Fibrates, and PCSK9 Inhibitors
- Measurements in lipoprotein subclasses
- Neuroendocrine Regulation of Lipid and Lipoprotein Metabolism
- Role of drugs and lifestyle in the management of dyslipidaemia

### Suggested Speakers

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### Mass Spectrometry
- Clinical Mass Spectrometry: Applications in Drug Monitoring, Endocrinology and Metabolism
- Mass spectrometry in the endocrinology laboratory
- Mass spectrometry in the therapeutic drug monitoring (TDM) laboratory
- Mass spectrometry in the toxicology laboratory

### Suggested Speakers

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### Molecular Biology
- Advanced molecular techniques for the diagnosis of Alzheimer disease
- Apoptosis, Clinical Significance and Therapeutic Approaches
- Expanding space for Next Generation Sequencing diagnostics applications
- From macro to nanotechnology: the future of laboratory medicine
- Impaired antioxidant mechanisms in kidney diseases
- Iron metabolism genes and molecular diagnostics
- Liquid profiling: pre-analytical challenges
- Molecular autopsy: utility for cardiac arrhythmias
- Molecular Diagnostics & Point of Care Testing
- Molecular Diagnostics, Molecular Genetics
- Molecular Diagnostics
- Molecular diagnostics and point of care testing
- New trends in molecular diagnostics
- NGS and beyond
- Non-invasive prenatal diagnosis by circulating nucleic acid analysis
- Proteasome inhibition sensitizes cancer cells to TRAIL mediated apoptosis
- Quality assurance and molecular diagnosis
- Sensitivity of human cancer cells to TRAIL/Apo-2L-induced apoptosis through upregulation of death receptors
- Utility of molecular testing in urology

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<td>Dr Ellis Jacobs (US)</td>
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<td>Spanish, English</td>
<td>Prof. Jose Francisco Muñoz-Valle (Mexico)</td>
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### Nutrition
- Data mining as a laboratory management tool
- Microbiotic and Nutrition
- Natural product modulators to overcome multidrug resistance in cancer
- Nutraceuticals - sources and benefits for human health
- Nutrient Sensing Mechanisms via Taste Receptors: Key Role in Control of Food Intake and Metabolism

### Suggested Speakers

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<td>Dr. Khosrow Adeli (Canada)</td>
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</tbody>
</table>
Nutrition
- Nutrition of the premature and term neonate
- Redox modulators and chemoresistance in cancer therapy: beneficial versus deleterious effects
- The role of the laboratory in nutritional support
- The role of the laboratory in nutritional support
- Understanding vitamin B12 through measuring active B12

Obesity
- The Obesity Epidemic: Understanding the cause, impacts and cure
- Obesity and Metabolic Syndrome
- Obesity and Metabolic Syndrome
- Paediatric obesity and Metabolic Syndrome

Oxidative Stress
- Antioxidants - diet or supplements?
- Are uremia, diabetes, and atherosclerosis linked with impaired antioxidant mechanisms?
- Correlation of carotid artery intima-media thickness with oxidative stress in diabetic patients on hemodialysis
- Diverse effects of antioxidants on the cytotoxicity of chemotherapeutic drugs
- Free radicals: the role of antioxidants and pro-oxidants in cancer development and therapy
- Laboratory assessment of oxidative stress
  - Natural redox modulators of oxidative stress and chemoresistance in cancer therapy: beneficial versus deleterious effects
- Oxidative stress and accelerated atherosclerosis in end-stage renal disease
- Oxidative stress and apoptosis: impact on cancer therapy
- Role of oxidative stress in disease (specifically atherosclerotic cardiovascular disease, macular degeneration or pre-eclampsia)

Patient focused Laboratory Medicine
- Reporting to patients: patients as costumers

Paediatric and Adolescent Clinical Biochemistry
- Biochemical Genetics in Functional Diagnosis of Inborn Errors of Metabolism
- Childhood obesity, prediabetes and metabolic syndrome
- Childhood obesity, prediabetes and metabolic syndrome
- Laboratorial manifestations in hyperandrogenism in pediatric and adolescent
- Neonatal Screening
- Neonatal Screening
- Inborn errors of metabolism
- Paediatric Laboratory Medicine: Unique Challenges
Paediatric and Adolescent Clinical Biochemistry

- Paediatric and adolescent clinical biochemistry: Childhood obesity, prediabetes and metabolic syndrome
- Point of care testing in the paediatric setting
- State of the art for pharmacogenomics

Personalized Medicine

- Technologies for personalized medicine
- Data science enabling personalized medicine
- Big data and ageing
- Personalized Medicine

Pharmacogenetics

- Clinical implementation of pharmacogenetics
- Pharmacogenetics of cytochrome P450 enzymes
- Pharmacogenetics for solid organ transplantation management
- Pharmacogenetics of tamoxifen
- Pharmacogenetics in oncology
- Pharmacogenetics and pain management
- Pharmacogenetics, the role of laboratory medicine

Point of Care Testing

- Applicability of the CLSI EP23 Guide in POCT devices
- A quality improvement system for POC Testing
- Benefits and management of POCT
- Biosensors and the cloud
- C difficile and Antimicrobial Stewardship
- Direct to consumer testing
- External quality assessment of POCT testing
- Evidence Based Medicine and Point of Care Testing
- IFCC recommendation on reporting results for blood glucose
- Implementation of the SGC ISO 22870
- ISO 22870 - POCT and responsibility of the laboratory
- Management & continuous quality improvement of point of care testing
- Management of the risk in poct devices
- Method verification on POCT devices
- Molecular Diagnostics & Point of Care Testing
- NBIC
- New Technologies and devices

Suggested Speakers

Language

Paediatric and adolescent clinical biochemistry: Childhood obesity, prediabetes and metabolic syndrome
Dr. Juan Manuel Vargas-Morales (Mexico)
Spanish

Point of care testing in the paediatric setting
Dr. Khosrow Adeli (Canada)
English
Dr. Alan Wu (US)
English

State of the art for pharmacogenomics
Dr. Alan Wu (US)
English

Personalized Medicine

Prof. Paolo Fortina (US)
Italian, English
Prof. Maurizio Ferrari (Italy)
Italian, English
Prof. Sergio Bernardini (Italy)
Italian, English, French

Pharmacogenetics

Prof. Ron van Schaik (The Netherlands)
Dutch, English
Prof. Ron van Schaik (The Netherlands)
Dutch, English
Prof. Ron van Schaik (The Netherlands)
Dutch, English
Prof. Ron van Schaik (The Netherlands)
Dutch, English
Prof. Ron van Schaik (The Netherlands)
Dutch, English
Prof. Ron van Schaik (The Netherlands)
Dutch, English
Prof. Maurizio Ferrari (Italy)
Italian, English

Point of Care Testing

Dr. Alba Cecilia Garzon (Colombia)
Spanish
Prof. Sverre Sandberg (Norway)
Norwegian, Danish, Swedish, English
Dr. Ellis Jacobs (US)
English
Prof. Stella Raymondo (Uruguay)
Spanish
Dr. Bernard Gouget (France)
French, English
Dr. Bernard Gouget (France)
French, English
Prof. Sverre Sandberg (Norway)
Norwegian, Danish, Swedish, English

Suggested Speakers

Dr. Ellis Jacobs (US)
English
Dr. Alba Cecilia Garzon (Colombia)
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Prof. Sverre Sandberg (Norway)
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German, English
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Dr. Alba Cecilia Garzon (Colombia)
Spanish
Dr. Alba Cecilia Garzon (Colombia)
Spanish
Dr. Ellis Jacobs (US)
English
Dr. Bernard Gouget (France)
French, English
Dr. Bernard Gouget (France)
French, English
**Point of care testing**
- Non invasive and in vivo biosensors
- Patient Safety: A quality System Approach to POCT QC/AQ
- POCT external quality assurance programs
- **Point of care testing in the paediatric setting**
- Point of Care Testing: What is the evidence that patients benefit?
- Quality assurance
- Quality assurance in POCT devices
- Quality control of POC testing
- Self-monitoring of blood glucose
- Should performance specifications for POC testing be different from performance
- Specifications on hospital laboratories
- Types & values of internal quality controls in POCT
- Value of Point of Care Blood Gas Testing
- Why Knowing Now Matters in the ED

❖ **Porphyria**
- An overview on how to diagnose and monitor the different porphyrias

❖ **Proteomics**
- Clinical applications of proteomics
- Clinical Proteomics and Proteomic Profiling in Hepatocellular Carcinoma
- Diagnostics proteomic markers to detect kidney diseases
- Proteomic validation of Biomarkers for Discrimination of Benign and Malign Prostatic Hyperplasia
- Proteomic Profiling During Atherosclerosis Progression
- Urinary proteomics in biomarker discovery of kidney-related disorders: diabetic nephropathy and drug-induced nephrotoxicity in chronic headache
- Validation of Prostate Cancer Biomarkers and Inflammation: A Proteomics Study

❖ **Purines**
- Purine metabolism and disorders of purine metabolism

❖ **Quality Assurance**
- Addressing nonconformances through Preventive and Reactive Action Plans
- Assurance strategies that impact Patient Safety

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**Suggested Speakers**

- **Point of care testing**
  - Dr. Bernard Gouget (France)
  - Dr. Ellis Jacobs (US)
  - Dr. Alba Cecilia Garzon (Colombia)
  - Prof. Sverre Sandberg (Norway)
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  - Prof. Tomris Ozben (Turkey)
  - Prof. Mathias Mueller (Austria)
  - Dr. Ed Randell (Canada)
  - Dr. Alba Cecilia Garzon (Colombia)
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**Language**

- French, English
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- Norwegian, Danish
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Quality Assurance

- Quality control programs
- Quality issues in the laboratory
- Risk management applied to quality assurance
- Sigmametry from strategy to action to impact processes
- Standardisation of hormones
- The Delta Check as a post analytical quality control tool
- Total error and measurement uncertainty
- Types & values of internal quality controls in POCT
- Understanding the clinical importance of measurement uncertainty and analytical goals
- Understanding external quality assurance
- Understanding internal quality control
- Validation, Verification and Evaluation of qualitative methods according to the CLSI EP12 guidelines

Reference Intervals

- Closing the Gaps in Adult and Paediatric Reference Intervals: Global Initiatives
- Defining consensus reference intervals for laboratory networks
- Deriving reference intervals with indirect methods using laboratory patient data
- Laboratory reference intervals: current gaps and guidelines
- Lean method for the laboratory reference ranges intervals
- Paediatric Reference Intervals: Recent Advances and Challenges
- Reference Intervals harmonization
- Reference Intervals, method evaluation
- Understanding the impact of aging on reference intervals
- Understanding the impact of gender on reference intervals
- Understanding the impact of pregnancy on reference intervals
- Understanding extreme results and the definition critical limits

Therapeutic Drug Monitoring / Toxicology

- Drugs of abuse
- Mass spectrometry in the TDM laboratory
- Mass spectrometry in the toxicology laboratory
- Multidrug resistance during chemotherapy, mechanisms involved
- Therapeutic drug monitoring
- Toxicology
- High resolution mass spectrometry for general unknown screens for clinical toxicology
- Toxicology
- **Thyroid disease**
  - Controversies in thyroid hormones
  - Genotyping approach to thyroid hormone resistance
  - Pre-analytical in thyroid hormone assessment
  - Thyroid function Test Standardization
  - Thyroid function tests

- **Traceability and Standardisation**
  - How to build traceability pyramids and how to verify using JCTLM
  - Implementation of metrological traceability in laboratory medicine
  - In vitro diagnostics and evolving regulatory challenges in laboratory medicine
  - Standardisation in clinical enzymology
  - Standardization of Cardiac Troponin I: process and progress
  - Theory of reference measurement systems and assays
  - Traceability and Harmonization of Clinical Laboratory Tests and effects of the new European In Vitro Diagnostic Regulation (IVDR)
  - Traceability and the HbA1c Project
  - Traceability and reference materials
  - Traceability and reference materials
  - Traceability in Laboratory Medicine: IVD Directives and IVD Regulations
  - Traceability
  - Traceability

- **Transplantation**
  - Post transplant hyperlipidemia in kidney transplant patients
  - Transplantation biochemistry
  - Transplantation

- **Suggested Speakers**
  - **Thyroid disease**
    - Prof. Montserrat Blanes (Paraguay)
    - Prof. Christopher Florkowski (NZ)
    - Prof. Montserrat Blanes (Paraguay)
    - Prof. Montserrat Blanes (Paraguay)
    - Dr. Damien Gruson (Belgium)
  - **Traceability and Standardisation**
    - Dr. Alba Cecilia Garzon (Colombia)
    - Prof. Mathias Mueller (Austria)
    - Prof. Tomris Ozben (Turkey)
    - Prof. Mauro Panteghini (Italy)
    - Prof. Robert Christenson (US)
    - Prof. Mauro Panteghini (Italy)
    - Prof. Tomris Ozben (Turkey)
  - **Transplantation**
    - Prof. Tomris Ozben (Turkey)
    - Prof. Mathias Mueller (Austria)
    - Prof. Sergio Bernardini (Italy)

- **Language**
  - **Thyroid disease**
    - Spanish, English
    - English
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    - French, English
  - **Traceability and Standardisation**
    - Spanish
    - German, English
    - Turkish, English
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    - Turkish, English
  - **Transplantation**
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    - German, English
    - Italian, English, French