























**Day 2 – 15 January 2025**



08:00 – 09:15	Registration			
09:15 – 09:30	Musical Interlude			
09:30 - 10:20 Plenary Session	<p><b>Portable Methodologies for In-Situ Trace Detection of Explosives and Environmental Toxins</b> Tomas Torroba, Department of Chemistry, University of Burgos, Burgos, Spain </p> <p>Chair: Israel Schechter</p>			
10:20 - 10:50	Coffee Break			
	Hall A	Hall B	Hall C	Hall D
	Session I	Session J	Session K	Session L
	Mass Spectrometry	Artificial intelligence (AI) in Analytical Chemistry	Nanomaterials in Analytical Chemistry	Laboratory Practice in Analytical Chemistry
	Chair: Aviv Amirav	Chair: Bianca Avramovitch	Chair: Daniel Mandler	Chair: Zvi Naim
10:50 - 11:20 Keynote	<p><b>Pushing the Limits of Sample Identification by GC-MS with Cold EI</b> Aviv Amirav Tel Aviv University, Israel </p>	<p><b>Timna: Bridging the Gap Between Ideas and Implementation in AI-Driven Medical Research</b> Eli Melul Ministry of Health, Israel </p>	<p><b>Electrochemical Sensor Array for Label-Free Detection of Oxidative Stress</b> Hadar Ben-Yoav Ben-Gurion University of the Negev Israel </p>	<p><b>Procedures, Standards and Guidelines: Who Publishes them and what are the Requirements?</b> Orna Dreazen Chairperson of the Board of Directors of Nextar Ltd. </p>
11:20 - 11:40	<p><b>Pushing the Boundaries of Science with Multi Reflecting Time of Flight Technology</b> Jayne Kirk Waters Corporation, UK </p>	<p><b>AI: A Catalyst for Analytical Innovation</b> Michel Reich Teva Pharmaceuticals LTD, Israel </p>	<p><b>The Role of Ammonia and Its Reduction Byproducts Analysis in Novel Electrocatalytic Processes</b> Alex Schechter Ariel University, Israel </p>	<p><b>Proper Work in the Laboratory Using Different Standards</b> Zvi Naim Yoel Naum Ltd. </p>
11:40 - 12:00	<p><b>Discovering Medical Biomarkers and Drugs in Whole Blood using GC-MS with Cold EI and 'WIN' Software</b> Benny Neumark Tel-Aviv University, Israel </p>	<p><b>AI, DI, Over Regulation: Impact on QMS</b> Karen Taylor KT Consulting, Israel </p>	<p><b>The Effect of the Capping Agents of Nanoparticles on Their Redox Potential</b> Pavel Savchenko The Hebrew University of Jerusalem, Israel </p>	<p><b>Training for Laboratory Employees: Planning, Implementation, Effectiveness Follow-Up and Program Update</b> Bianca Avramovitch Teva </p>
12:00 - 12:20	<p><b>Leading Non-Targeted Analysis to the Next Level Using GC-MS with Cold EI</b> Alex Yakovchuk Tel Aviv University, Israel </p>	<p><b>Big Data as a key component for Artificial Intelligence in Analytical Chemistry</b> Ayelet Ofarim Arad-Ophir, Israel </p>	<p><b>A Dual-Channel Biosensor Enables Concurrent Detection of Pathogens and Antibiotic Resistance</b> Sefi Vernick ARO Volcani Institute, Israel </p>	<p><b>Validation of Analytical Methods</b> Orna Dreazen Chairperson of the Board of Directors of Nextar Ltd. </p>
12:20 – 12:40		<p><b>Context-Dependent Design of Induced-Fit Enzymes Using Deep Learning Generates Well-Expressed, Thermally Stable and Active Enzymes</b> Chen Brestel Independent AI Scientist, Israel </p>	<p><b>Continuous Glucose Monitoring (CGM): From Research to Real-World Application</b> Yehonatan Ravenna Tingo Medical, Israel </p>	

12:40 - 13:45	 Lunch Break and Poster Presentations			
13:45 - 14:00	Annual meeting of the IACS and Best poster award			
14:00 - 14:45 Plenary Session	  <p><b>How to Break the "Fundamental" Limits of Clinical and Wearable/Implantable Bio and Electrochemical Sensors</b>  <b>Muhammad A. Alam</b>, School of Electrical and Computer Engineering, Purdue University, Indiana, USA    Chair: <b>Daniel Mandler</b></p>			
14:45-15:10	 Coffee Break			
	Hall A	Hall B	Hall C	Hall D
	Session M	Session N	Session O	Session P
	Pharmaceutical and Bioanalysis	Environmental and Public Health Analysis	Regulatory Aspects in Analytical Chemistry	Analytical Spectroscopy
	Chair: <b>Raphy Bar</b>	Chair: <b>Ishai Dror</b>	Chair: <b>Arina Ceausu</b>	Chair: <b>Israel Schechter</b>
15:10- 15:40 Keynote	<p><b>How reliable are your blood test results?: Uncertainty Approach versus Error Approach</b>  <b>Paulo Pereira</b>  Portuguese Institute of Blood and Transplantation, Portugal  </p>	<p><b>The gold standard: understanding engineered gold nanoparticle (AuNP) interactions and fate in the soil-water environment</b>  <b>Ishai Dror</b>  Weizmann Institute of Science, Israel  </p>	<p><b>Behind the scenes of analytical development and control strategy of generic complex GLP-1 peptides</b>  <b>Lior Stern</b>  TAPI, Israel  </p>	<p><b>Bridging Supramolecular Chemistry and Practicality: Colorimetric Sensors for Real-World Challenges</b>  <b>Mindy Levine</b>  Ariel University, Israel  </p>
15:40 - 16:00	<p><b>Finding Optimal Leuprorelin-Permeability Enhancer Complexes for Extended Release</b>  <b>Deborah Shalev</b>  Azrieli College of Engineering, Israel  </p>	<p><b>Optical Solutions for the Precise Analysis of Oxygen in Hydrogen Environments: Challenges and Innovations</b>  <b>Ariel Kigel</b>  Modcon Systems, Israel  </p>	<p><b>Identification and quantification of Fava bean in food</b>  <b>Shira Rosencwaig</b>  Ministry of Health, Israel  </p>	<p><b>Compensation for Matrix Effects in High-Dimensional Data using Standard Addition</b>  <b>Itai Dattner</b>  University of Haifa, Israel  </p>
16:00- 16:20	<p><b>Qualification of critical reagents in in-vitro potency bioassays using Curve Parameter Control Strategy</b>  <b>Debby Bartfeld</b>  Independent consultant, Israel  </p>	<p><b>Removal of PFAS and other fluorinated organic compounds by electrochemistry in water</b>  <b>Phillip Vershinin</b>  Weizmann Institute of Science, Israel  </p>	<p><b>Challenges of Generic Oligonucleotide Drug Substance Development</b>  <b>Michael Tikhonov</b>  TAPI, Israel  </p>	<p><b>Dynamic Stark effect on Fraunhofer-type absorption in DP LIBS</b>  <b>Lev Nagli</b>  Ariel University, Israel  </p>
16:20- 16:40	<p><b>Practical uses of AI and new technology in the Cleanroom industries</b>  <b>Josh Magnus</b>  Magnus Solutions, Israel  </p>		<p><b>Multiplex Pathogenic Bacteria Detection In Milk Using Nanoparticle-Assisted Porous Silicon-Based SERS Microarray Biosensor</b>  <b>Giorgi Shtenberg</b>  Volcani Institute, Israel  </p>	<p><b>LIBS-MLIF for isotopic shift analysis</b>  <b>Michael Gaft</b>  Ariel University, Israel  </p>
16:40 - 17:00			<p><b>Analytical Capabilities for Human Biomonitoring in Israel: State of the Art</b>  <b>Gal Zizelski Valenci</b>  Ministry of Health, Israel  </p>	<p><b>Sub-PPB Detection with Gas-phase Multiphoton Electron Extraction Spectroscopy under Ambient Conditions</b>  <b>Tikhon Filippov</b>  Technion-Israel Institute of Technology, Israel  </p>

Day 1  
14 January 2025

Poster Session

מושב לימודי  
לעובדים ומנהלים  
במעבדות אנליטיות