

DAY 2 | 13 JANUARY 2027

Scientific Program Day 1 12 January 2027 | Scientific Program Day 2 13 January 2027 | Poster Session

08:00–17:00	**Registration** Collect Your Badge & Conference Materials		
08:00–09:10	MORNING REFRESHMENTS & NETWORKING | Connect With Colleagues Before the Sessions		
09:10–09:15	**Official Opening of ISRANALYTICA 2027** **Debby Bartfeld**, ISRANALYTICA 2027 Chairperson		
09:15–10:00	 **Plenary Session** **Chemical Analysis – is it explosive?** **Jimmie Carol Oxley** *University of Rhode Island, Kingston, USA* Chair: Yosi Almog		
10:00–10:20	Coffee Break		
10:20–12:20	**HALL A** **Forensic and Homeland Security** Chair: Yosi Almog & Michal Levin Elad	**HALL B** **Regulatory Driven Advances in Analytical Chemistry** Chair: Arina Ceausu	**HALL C** **High School students' event** Chair: Lilach Yishai Aviram
10:20–10:40	**Rapid and Accurate Identification of Fentanyl and Buprenorphine in Transdermal Patches Using Quickprobe GC-MS** **Simcha Shimron** *Israel Police, Ofra, Israel*	**Oligonucleotides Diastereomeric Distribution Control through Process Development** **Michael Tikhonov** *TAPI, Netanya, Israel*	
10:40–11:00	**Explosive Residues in Blood Matrices – Indispensable Post-Blast Forensic Evidence** **Yonit Kasherman** *Israel Police, Jerusalem, Israel*	**Analytical Procedure Validation in Practice: Turning ICH Q2(R2) and Q14 into Laboratory Decisions** **Rivka Zaibel** *Adres Advanced Regulatory Services Ltd., Nes Ziona, Israel*	
11:00–11:20	**Development of a Forensic Method for the Identification of the Psychoactive Compound Muscimol in Amanita Mushrooms** **Rinat Belitzky** *Israel Police, Jerusalem, Israel*	**Recent Regulatory Trends in China DMF Submissions: Analytical and Quality Control Expectations** **Xinxin Zhou (Florence)** *Regulatory Affairs Associate, Beijing, China*	
11:20–11:40	**Developed Fingerprints as a Molecular Roadmap for Targeted Touch DNA Recovery** **Naftaly Einot** *Israel Police, Jerusalem, Israel*	**Validating the Reportable Result: Using Variance Components to Meet ICH Q2(R2) and USP Expectations** **Mati Morag** *MediWound, Yavne, Israel*	
11:40–12:00	**When Application Leads to Science – upon Presumptive Blood Identification** **Ofir Levy** *Israel Police, Jerusalem, Israel*	**Analytical Challenges and Control Strategies for Starting Materials Used in Oligonucleotide Drug Substance Manufacturing** **Pavel Parkhomyuk** *TAPI, Netanya, Israel*	
12:00–12:20	**Beyond Limits: Expanding the Capabilities of the Rapid DNA Device** **Shira Dishon** *Police, Jerusalem, Israel*	**The Middle Collapsed: How AI Reshaped the Biologics Discovery Timeline** **Emil Ruvinov** *Ferring-BTG, Kiryat Malachi, Israel*	

12:20–13:15			
13:15–13:25	**IACS Annual Meeting**		
13:25–13:35			
13:35–15:25	**HALL A** **Next-Gen Instrumentation** Chair: Igal Bar-Ilan	**HALL B** **Artificial Intelligence in Analytical Chemistry** Chair: Yousif Ayoub	**HALL C** **Analytics of Biomolecules** Chair: Maya Keinan
13:35–14:05	**The Next Generation of GC–TOF MS: Innovations in Separation, Detection, and Molecular Insight** **Tomas Kovalczuk** *Leco Corporation, Plzen, Czech Republic*	**TBD** **Ahmad Salman**	**Analytical Control of an mRNA-Encoded Peanut Allergy Immunotherapy** **Judith Weiss** *UKKO, Mazkeret Batya, Israel*
14:05–14:25	**Ultra-High Sensitivity, High-Speed MS for Higher-Throughput Proteomics from Low-Input Samplesultra-High Sensitivity, High-Speed MS for Higher-Throughput Proteomics from Low-Input Samples** **David Morgenstern** *Weizmann Institute of Science, Rehovot, Israel*	**Extractables & Leachables : from Lab Data to AI-Driven Insights** **Ran Cohen**	**The Last Mile of PAT: Bringing Raman Spectroscopy from Development to Manufacturing** **Benjamin Shemer** *BTG - a Ferring Company, Beer Tuvia Industrial Zone, Israel*
14:25–14:45	**Maximizing Throughput and Accuracy in HPLC: Implementing Innovative Tandem LC, Dual LC, and Inverse Gradient Technologies** **Tomer Cohen** *Bargal Analytical Instruments, Shoham, Israel*	**Beyond Connecting the Dots : from Analytical Data to AI-Ready Insights** **Ayelet Ofarim**	**New Tools to Characterize Synthetic Glycans and Analyze Their Interactions** **Mattan Hurevich** *The Hebrew University of Jerusalem, Jerusalem, Israel*
14:45–15:05	**Advanced Particle & Dispersion Characterization Technologies** **Robert Waggeling** *Soltek, Rosh Hayin, Israel*	**Chemically Informed Deep Learning for Screening New Psychoactive Substances Beyond Spectral Libraries** **Nir Cohen** *IIBR, Ness Ziona, Israel*	**Zeptomolar (10-21 M) Detection via "Swarms" of Alkaline-Phosphatases** **Guy Patchornik** *Ariel University, Ariel, Israel*
15:05–15:25		**TBD** **International Guest Lecture**	**From Development to Post-Approval Regulatory Implementation of a Process-Specific Elisa for Residual Host Cell Protein Quantitation as a Release Method** **Yehudit Fisher** *Ferring-BTG, Kyriat Malachi, Israel*
15:25–15:40	Coffee Break		
15:40–16:25	 **Plenary Session** **Measuring Mass of Molecules: From Atoms to Molecular Machines** **Alexander Makarov** *Thermo Fisher Scientific, Bremen, Germany* Chair: Debby Bartfeld		

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