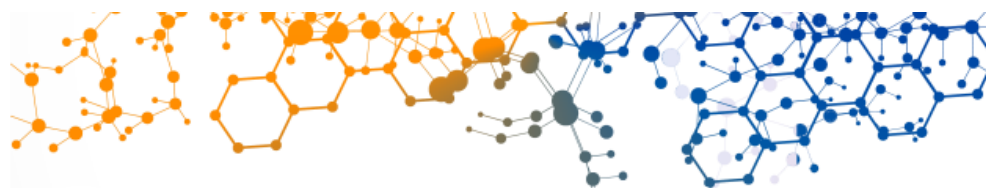


# ISRAANALYTICA 2020





















## SCIENTIFIC PROGRAM



DAY 1

January 21, 2020

08:00 – 09:10	Registration			
09:10 – 09:20	Opening <b>Raz Jelinek</b> , <i>Chairman of the Isranalytica 2020 Conference</i> 			
09:20 – 09:30	 Musical Interlude			
09:30 - 10:20 Plenary Session	 <p> <a href="#"><u>THE OPTOELECTRONIC NOSE: AN ADVENTURE IN MOLECULAR RECOGNITION</u></a>  <b>Prof. Kenneth S Suslick</b>  <i>Schmidt Research Professor of Chemistry, University of Illinois at Urbana-Champaign, School of Chemical Sciences, USA</i>   </p> Chair: <b>Israel Schechter</b>			
10:20 - 10:50	 Coffee Break			
	Hall A	Hall B	Hall C	Hall D
	Session A	Session B	Session C	Session D
	Environmental Analysis	Forensics and Homeland Security Analysis	Cannabis Pharmaceuticals and Analytics	Metrology, Quality and Chemometrics
	Chair: Ovadia Lev	Chair: Michal Levin	Chair: Orna Dreazen	Chair: Ilya Kuselman

<p>10:50 - 11:20 Keynote Lecture</p>	<p><a href="#"><u>PAPER-BASED DEVICES FOR ULTRASENSITIVE NITRATE, NITRITE, AND PHOSPHATE DETECTION</u></a> <b>Mindy Levine</b> <i>Ariel University, Israel</i> </p>	<p><a href="#"><u>FORENSIC CHEMISTRY AND COUNTER-TERRORISM: DETECTION OF LATENT FINGERMARKS ON PIPE-BOMBS</u></a> <b>Joseph Almog</b> <i>The Hebrew University of Jerusalem, Israel</i></p>	<p><a href="#"><u>A MULTI-TECHNIQUES APPROACH FOR THE ANALYSIS OF CANNABINOIDS AND ASSESSMENT OF THE BIOACTIVITY OF NON-PSYCHOACTIVE CANNABIS SATIVA L.</u></a> <b>Federica Pellati</b> <i>University of Modena and Reggio Emilia, Italy</i> </p>	<p><a href="#"><u>ANALYSIS OF QUALITATIVE &amp; SEMI-QUALITATIVE DATA AND INTERLABORATORY COMPARISON OF MACROSCOPIC EXAMINATIONS OF WELDS</u></a> <b>Tamar Gadrich</b> <i>ORT Braude College, Israel</i> </p>
<p>11:20 - 11:40</p>	<p><a href="#"><u>THE USE OF DIFFERENT PLASMA OBSERVATION APPROACHES IN THE DAILY ROUTINE ANALYSIS</u></a> <b>Peter Ivanov</b> <i>Spectro AI GmbH, Germany</i> </p>	<p><a href="#"><u>TIME IS MONEY OR MONEY IS TIME? A RAPID OPERATIONAL SEQUENCE FOR POLYMER BANKNOTES</u></a> <b>Ravell Bengiat</b> <i>Division of identification and forensic science, Israel Police, Israel</i> </p>	<p><a href="#"><u>CANNABINOIDS ANALYSIS BY GC-MS WITH COLD EI</u></a> <b>Aviv Amirav</b> <i>Tel Aviv University, Israel</i> </p>	<p><a href="#"><u>CORRELATION OF TEST RESULTS OF A CHEMICAL COMPOSITION AND COMPOSITIONAL DATA ANALYSIS</u></a> <b>Ilya Kuselman</b> <i>Independent Consultant on Metrology, Israel</i> </p>
<p>11:40 - 12:00</p>	<p><a href="#"><u>CHALLENGES IN LC-MS MULTI-RESIDUE ANALYSIS OF ENVIRONMENTAL CONTAMINANTS IN WATER AT SUB-PPB LEVELS</u></a> <b>Julius Ben Ari</b> <i>The Hebrew University of Jerusalem, Israel</i> </p>	<p><a href="#"><u>BRING YOUR OWN SLIDES</u></a> This session is known as one of the most vivid and attractive sessions during forensic meetings. Short cases with a twist in the plot are presented - attractive, intriguing, even half-baked case reports, or calls for collaboration and sharing of knowledge.</p>	<p><a href="#"><u>MAXIMIZATION OF ANALYTICAL CANNABIS EXTRACTION SINGLE PROCESS COMBINED PRESSURIZED FLUID AND DISPERSIVE SOLID EXTRACTION (EDGE)</u></a> <b>Maxim Diel</b> <i>Kamp-Lintfort, Germany</i> </p>	<p><a href="#"><u>ACCEPTANCE CRITERIA FOR ANALYTICAL METHODS AND THEIR VALIDATION</u></a> <b>Michael Pesachovich</b> <i>AequitaLab, Israel</i> </p>
<p>12:00 - 12:20</p>	<p><a href="#"><u>HIGH-RESOLUTION ACCURATE MASS GC/MS A NEW AND IMPORTANT TOOL FOR DRINKING WATER QUALITY MONITORING OF REGULATED AND NON-REGULATED ORGANIC MICRO-POLLUTANTS</u></a> <b>Luda Groisman</b> <i>National Public Health Laboratory, Ministry of Health, Israel</i> </p>	<p>The short presentations will cover a wide range of subjects. The list of topics and presenters will be published on the conference website at the last minute - 21/1/20 morning to ensure all issues are served directly from oven to table.</p> <p>Short Presentations:</p>	<p><a href="#"><u>DEVELOPMENT CHALLENGES IN CANNABIS-BASED MEDICINE, DO WE KNOW WHAT IS ACTIVE?</u></a> <b>Tal H. Hasson</b> <i>Nextage Cannabis Innovation Ltd., Israel</i> </p>	<p><a href="#"><u>BENDING THE RULES OF THE CONVENTIONAL SPC IN THE REAL-WORLD OF PHARMACEUTICAL PROCESS DATA</u></a> <b>Raphael Bar</b> <i>BR Consulting, Israel</i> </p>

[TRIPLE QUADRUPOLE APPROACH OF PESTICIDES ANALYSIS IN HERBS BY GCMSMS](#)

**Milos Korman**

*Thermo Fisher Scientific, Slovakia*



[A BLOODY MESS? NO SOLUTION? WE CAN FIX IT!!](#)

**Ziv Grimberg**

*Division of identification and forensic science, Israel Police, Israel*



[FOR YOUR EYES ONLY: FORENSIC EVIDENCE GOES UNDERCOVER](#)

**Inon Harush-Brosh**

*Division of identification and forensic science, Israel Police, Israel*



[THE CASE OF THE PIPE-BOMB "PLUMBER"](#)

**Nora Rajs**

*Division of identification and forensic science, Israel Police, Israel*



[DETECTION OF METAL IONS "FINGER PRINTS" IN CONTAMINATED AREA: A NOVEL APPROACH USING STRIPPABLE POLYMER COATINGS CONTAINING TTA LIGAND](#)

**Ofra PazTal**

*NRCN, Israel*



[CANNABINOIDOMICS – AN ANALYTICAL TOOL TO UNDERSTAND THE EFFECT OF MEDICAL CANNABIS TREATMENT IN CLINICAL AND PRECLINICAL STUDIES](#)

**Shirley (Paula) Berman**

*David Meiri's Lab - Laboratory of Cancer Biology and Cannabinoid Research, Technion-Israel Institute of Technology, Israel*



[CALIBRATION OF MEASURING DEVICES: RESULTS, UNCERTAINTY, CONCLUSION](#)

**Boris Katz**

*Metrology Consulting, Israel*



12:20 – 12:40

12:40 - 14:00



Lunch Break and Poster Presentations

14:00 - 14:10



Musical Interlude

14:10 - 15:00  
Plenary  
Session



**COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY – PROMISE, PROCEDURES AND PROBLEMS**

**Prof. Philip J Marriott**

*Australian Centre for Research on Separation Science, School of Chemistry, Monash University, Australia*







Chair: **Aviv Amirav**

15:00 - 15:30




Coffee Break

	Hall A	Hall B	Hall C	Hall D
	Session E	Session F	Session G	Session H
	Nanomaterials & Electrochemistry	Analytical Chemistry in the Israeli Air Force	Food Analysis	MS (GCMS & LCMS)
	Chair: Daniel Mandler	Chair: Igal Bar Ilan	Chair: Shula Levin	Chair: Aviv Amirav
15:30- 16:00 Keynote Lecture	<p><u><a href="#">SINGLE-MOLECULE BIOPHYSICS WITH CARBON NANOTUBE BASED DEVICES</a></u> <b>Sefi Vernick</b> <i>Institute of Agricultural Engineering, Agricultural Research Organization - Volcani Center, Israel</i></p>	<p><u><a href="#">THE COMPLEXITY IN SAMPLING AIR POLLUTION IN FIGHTER AIRCRAFT COCKPIT</a></u> <b>Adva Cohen,</b> <i>Israeli Air Force, Israel</i></p>	<p><u><a href="#">ANALYSIS AND REGULATION OF FOOD SAFETY AND NUTRITIONAL VALUE</a></u> <b>Shira Rosencwaig</b> <i>Ministry of Health, Israel</i></p>	<p><u><a href="#">THE WAY TO TRUST HYDROGEN GENERATOR LINK TO GCMS ANALYSIS: THE SAFETY PLAN FOR ROUTINE ANALYSIS</a></u> <b>David Benanou</b> <i>Veolia Research &amp; Innovation, Maisons Laffitte, France</i></p>
16:00 - 16:20	<p><u><a href="#">OXYTOCIN-DERIVED METAL ION BIOSENSORS</a></u> <b>Evgeniy Mervinetsky</b> <i>The Hebrew University of Jerusalem, Israel</i></p>	<p><u><a href="#">THE REVIVAL OF THE TGA-FTIR ANALYSIS IN THE MODERN ANALYTICAL FORENSIC LABORATORY</a></u> <b>Regina Sinelnikov</b> <i>Israeli Air Force, Israel</i></p>	<p><u><a href="#">BOOSTING SIGNIFICANCE OF N/PROTEIN ANALYSIS FROM INFANT FORMULA TO NITROCELLULOSE</a></u> <b>Rene Nowka</b> <i>Elementar Analysensysteme GmbH, Germany</i></p>	<p><u><a href="#">BRIDGING THE GAP BETWEEN THE WORLDS OF LC-MS AND GC-MS WITH ONE COMBINED SYSTEM</a></u> <b>Svetlana Tsizin</b> <i>Tel Aviv University, Israel</i></p>
16:20- 16:40	<p><u><a href="#">NEW STRATEGIES FOR MINIMISING ELECTRODE FOULING IN ENVIRONMENTAL ELECTROANALYSIS</a></u> <b>Jiri Berek</b> <i>Charles University, Czech Republic</i></p>	<p><u><a href="#">INVESTIGATING THE AGING OF FUEL BLADDERS BASED ON NBR IN APACHE HELICOPTER</a></u> <b>Yotam Levine</b> <i>Israeli Air Force, Israel</i></p>	<p><u><a href="#">THE ACAI SUPERFOOD GOLD RUSH</a></u> <b>Ayelet Ofarim</b> <i>Arad-Ophir, Israel</i></p>	<p><u><a href="#">GC ULTIMATE CARRIER SOLUTION IMPLEMENTATION</a></u> <b>Naama Kimhi</b> <i>Neot-Hovav laboratory, ICL, Israel</i></p>

<p>16:40– 17:00</p>	<p><u><a href="#">ELASTIC CARBON DOT/POLYMER FILMS FOR FLUORESCENT TENSILE SENSING AND MECHANO-OPTICAL TUNING</a></u>  <b>Nitzan Shauloff</b>  <i>Ben-Gurion university, Israel</i>  </p>	<p><u><a href="#">ELEMENTAL ANALYSIS OF ETHYLENE GLYCOL AND WATER-BASED COOLING LIQUID USING A ROTATING DISC ELECTRODE OPTICAL EMISSION SPECTROMETER</a></u>  <b>Konstantin Tartakovsky</b>  <i>Israel Air Force, Israel</i>  </p>	<p><u><a href="#">ADVANCES IN TRIPLE QUADRUPOLE ICP-MS FOR ENVIRONMENTAL AND FOOD ANALYSIS</a></u>  <b>Michal Godula</b>  <i>Thermo Fisher Scientific, Czech Republic</i>  </p>	<p><u><a href="#">ADVANCEMENTS IN HIGH THROUGHPUT SAMPLE PREPARATION AND NOVEL COMPOUND IDENTIFICATION IN UNTARGETED METABOLOMICS</a></u>  <b>Uri Keshet</b>  <i>University of California, USA</i>  </p>
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<p>17:00 - 17:20</p>	<p><u><a href="#">NANOPARTICLES IMPRINTED MATRICES (NAIMS) FOR NANOPARTICLES DETECTION</a></u>  <b>Linoy Dery</b>  <i>The Hebrew University of Jerusalem, Israel</i>  </p>		<p><u><a href="#">ANALYTICAL CHARACTERIZATION AND ANTIOXIDANT ACTIVITY EVALUATION OF SWEET CHERRY</a></u>  <b>Virginia Brighenti</b>  <i>University of Modena and Reggio Emilia, Italy</i>  </p>	<p><u><a href="#">TAKE THE ANALYSIS TO YOUR SAMPLES WITH PORTABLE GC-MS</a></u>  <b>Francesco Aimone</b>  <i>Perkin Elmer, Italy</i>  </p>
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<p>17:20 – 18:00  Evening Plenary  Hall A</p>	<div style="background-color: #e0f0e0; padding: 10px;"> <p><b>Evening Plenary</b></p> <p><b>THE FOUNDATION OF DISCOVERING THE THERAPEUTIC EFFECTS OF MEDICAL CANNABIS</b></p> <p><b>David (Dedi) Meiri</b>  Laboratory of Cancer Biology and Cannabinoid Research, Technion-Israel Institute of Technology, Israel</p>  </div>
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<p>18:00-18:45</p>	 <div style="background-color: black; color: white; padding: 20px; text-align: center;"> <h1>Happy Hour</h1> </div>
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