

TOXICOLOGY

Wednesday

Poster Session

7:30 PM – 9:00 PM	L1	Comparing the Performance of LC-QqQ-MS vs. LC-QTOF-MS for Targeted Analysis of NPS With a Test Mixture of 40 NPS and Metabolites in Whole Blood, Urine, and Oral Fluid <i>Rebecca L. Smith, MS*</i> ; <i>Anthony P. DeCaprio, PhD</i> (FSF Emerging Forensic Scientist Award Poster Presentation)
7:30 PM – 9:00 PM	L2	4-Substituted AH-7921 Analogs: Isomer Selection During Synthesis and Pharmacological Profile <i>John L. Krstenansky, PhD, MBA*</i>
7:30 PM – 9:00 PM	L3	A Rare Case of Fatal Levamisole Toxicity <i>Mark E. Shelly, DO*</i> ; <i>Robert Johnson, PhD</i> ; <i>Aria McCall, BS</i> ; <i>Vanessa Lopez-Campos, BS</i>
7:30 PM – 9:00 PM	L4	A Mass Disaster Caused by Gas Leaks: A Case Report and a Forensic Workflow Proposal <i>Massimiliano Esposito, MD*</i> ; <i>Federica Ministeri, MD</i> ; <i>Salvatore Rocuzzo, MD</i> ; <i>Nunziata Barbera, MD</i> ; <i>Fabrizio Vanaria</i> (FSF Emerging Forensic Scientist Award Poster Presentation)
7:30 PM – 9:00 PM	L5	Postmortem Redistribution in Forensic Toxicological Investigations <i>Pietro Zuccarello, PhD*</i> ; <i>Monica Salerno, MD</i> ; <i>Massimiliano Esposito, MD</i> ; <i>Francesco Sessa, MS, PhD</i> ; <i>Nunziata Barbera, MD</i>
7:30 PM – 9:00 PM	L6	My Way: A Case of Lethal Intoxication of an Animal Euthanasia Drug in a Veterinary Doctor <i>Gianluca Musci, MD</i> ; <i>Alessandra Petruzzellis, MD</i> ; <i>Gianluca Gravili, MD</i> ; <i>Giorgio De Donno, MD</i> ; <i>Stefania Galizia, MD*</i> ; <i>Gianfrancesco Di Nunno, MD</i> ; <i>Antonio De Donno, MD</i>
7:30 PM – 9:00 PM	L7	A Ten-Year (2013–2022) Retrospective Analysis of Road Traffic Deaths in the Northern Italian Region of Campania <i>Anna Carfora, PhD</i> ; <i>Alessandro Feola, MD, PhD*</i> ; <i>Raffaella Petrella, PhD</i> ; <i>Giusy Ambrosio, MD</i> ; <i>Stefano Festinese, MD</i> ; <i>Ilaria Fracassi, MD</i> ; <i>Paolo Palermo, MD</i> ; <i>Martina Zampone, MD</i> ; <i>Carlo Pietro Campobasso, MD, PhD</i>
7:30 PM – 9:00 PM	L8	Trends in Neonatal Deaths From Fentanyl <i>Emily Fenton, MBA, MSFS*</i> ; <i>Kari M. Midthun, PhD</i> ; <i>Brianna Peterson, PhD</i>
7:30 PM – 9:00 PM	L9	WITHDRAWN
7:30 PM – 9:00 PM	L10	A Complete Review of Propofol Misuse in the Health Care System and as a Drug of Abuse <i>Jidabha Apiluk, BS</i> ; <i>Sajeel Shah, PhD*</i> ; <i>Nikolas P. Lemos, PhD</i>
7:30 PM – 9:00 PM	L11	A Retrospective Analysis of Results From United States Court-Ordered Mandatory Drug Testing of Oral Fluid and Hair and the Impacts of Expanding the Testing Scope for Fentanyl and Fentanyl-Related Compounds <i>Jeri D. Roper-Miller, PhD*</i> ; <i>Megan Grabenauer, PhD</i> ; <i>Nichole D. Bynum, MS</i> ; <i>Nicolas Richardson, PhD</i>
7:30 PM – 9:00 PM	L12	Drops of Insanity? Tropicamide Recreational Usage: Early Warning Alarms in Forensic Science <i>Sushil Bhatt, PGDST*</i> ; <i>Jagmahender Singh Sehwawat, PhD</i> ; <i>Vishali Gupta, MS</i> (FSF Emerging Forensic Scientist Award Poster Presentation)

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- 7:30 PM – 9:00 PM **L13** **Biofluid Sampler: A Promising Sampling and Sample Preparation Platform for Forensic Toxicological Investigations**
*Abuzar Kabir, PhD**; *Marcello Locatelli, PhD*; *Kenneth G. Furton, PhD*
- 7:30 PM – 9:00 PM **L14** **Quantitation of Delta-8-Tetrahydrocannabinol in Postmortem Specimens by the Method of Standard Addition**
*Robert M. Lockwood, PhD**; *Taikeria Adams, BS*; *Curt E. Harper, PhD*
- 7:30 PM – 9:00 PM **L15** **Fabric Phase Sorptive Extraction: A Green Sample Preparation Strategy for Forensic Toxicology**
Abuzar Kabir, PhD; *Kenneth G. Furton, PhD**; *Marcello Locatelli, PhD*
- 7:30 PM – 9:00 PM **L16** **A Comparative Analysis of Accuracy, Precision, and LOD in AAS and TMA for the Quantification of Cadmium in the Blood Samples**
*Jatin Kumar Drall, BTech**; *Ajay Kumar Kataria, MTech*
- 7:30 PM – 9:00 PM **L17** **The Determination of Cadmium in Blood by Voltammetry Using Hanging Mercury Drop Electrode (HMDE)**
*Ashok Kumar Jaiswal, PhD**
- 7:30 PM – 9:00 PM **L18** **Identifying Designer Benzodiazepines in Blood Using Gas Chromatography/Mass Spectrometry**
*Devin Baer**; *Michael T. Truver, PhD*; *Sara C. Brogan, BS*; *Jennifer L. Hoyer, MS*; *Michele Crosby*; *Chris W. Chronister, PhD*
- 7:30 PM – 9:00 PM **L19** **The Impact of Gold Top SST (Gel and Clot) Collection Tubes on Cannabinoid Quantitative Analysis in Blood**
Bridget O’Leary, MS; *Marta Concheiro-Guisan, PhD**
- 7:30 PM – 9:00 PM **L20** **Designer Benzodiazepine ELISA Cross-Reactivity**
*Leonela M. Placencia, BS**; *Nicholas B. Tiscione, MS*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 7:30 PM – 9:00 PM **L21** **EC-SERS and DART®-TOF/MS for Toxicological Screening**
*Colby E. Ott, PhD**; *Edward Sisco, PhD*
- 7:30 PM – 9:00 PM **L22** **A Validated Method for Quantification of Buprenorphine/Naloxone and Its Primary Metabolites in Clinical Human Breast Milk, Maternal and Infant Plasma Samples Using Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)**
*Munchelou M. Gomoni, BS**; *Krystle McConnell, BA, MPH*; *Lauren M. Jansson, MD*; *Madeleine J. Swortwood, PhD*
- 7:30 PM – 9:00 PM **L23** **An Evaluation and Comparison of the Evidence MultiSTAT to GC/MS for the Detection of Morphine, Codeine, and Thebaine in Urine and Oral Fluid**
*Amanda L. Pacana, BS, MSFS**; *Britni Skillman, PhD*; *Madeleine J. Swortwood, PhD*; *Stacie Terry, MSFS*
- 7:30 PM – 9:00 PM **L24** **An Investigation of Phthalate Levels in Teething Devices for Children in the United Arab Emirates**
*Vipula Aravamudhan**; *Nrashant Singh*; *Deveshi Kachroo*; *Noora Najeeb*
- 7:30 PM – 9:00 PM **L25** **The Validation of an LC/QqQ/MS Method for the Detection of Single Doses of Drugs in Hair**
*Kaylyn Ann Keith**; *Anthony P. DeCaprio, PhD*

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- 7:30 PM – 9:00 PM **L26** **The Development of a Reference Material for Chemical Hair Analysis**
*Kaitlyn Bonilla, BS**; Charlene Harris, BS; Chloe Phillips; Matthieu Baudelet, PhD
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 7:30 PM – 9:00 PM **L27** **Streamlining Blood LC/MS/MS Workflows to Meet ASB/OSAC Recommendations for Medicolegal Death and Impaired Driving Cases**
*Jason Truskowski, BS**
- 7:30 PM – 9:00 PM **L28** **Streamlining Urine LC/MS/MS Workflows to Meet ASB/OSAC Recommendations for Drug-Facilitated Crime Investigations**
*Jason Truskowski, BS**
- 7:30 PM – 9:00 PM **L29** **“Hang on a Minute”: Developing Improved Separation Methodologies for Weakly Retained Polar Molecules in LC/MS/MS**
*Briana Rose Alarcon, BS**; William H. Campbell, PhD
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 7:30 PM – 9:00 PM **L30** **The Separation of Fentanyl Analog Geometric and Positional Isomers by LC/MS/MS**
*Erika L. Sitch, MPS**; Briana Rose Alarcon, BS*; William H. Campbell, PhD
- 7:30 PM – 9:00 PM **L31** **What Are You Smoking? A Derivatization to Improve the Analysis of Tetrahydrocannabinol (THC) Isomers Via LC/MS/MS**
*Olesia Leonna Headen**; William H. Campbell, PhD
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 7:30 PM – 9:00 PM **L32** **The Quantitation of 106 Drugs in Urine Using a High-Throughput, Seven-Minute Method by High Resolution Mass Spectrometry and Triple Quadrupole**
*Courtney Patterson**; Mark Tracy; Kristine van Natta; Stephanie Samra; Kerry Hassell
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 7:30 PM – 9:00 PM **L33** **Urine Immunoassay Cross-Reactivity of Various OTC and Prescription Drugs**
*Fatima Chavez-Esparza, BS**; Courtney Sellens, MS, BS; Qiyang Zhang, PhD; Melissa M. Bailey, MSFS, PhD; Timothy P. Rohrig, PhD; Connor DeJesus, MS, BS
- 7:30 PM – 9:00 PM **L34** **Don’t Huff Before You Blow!**
*Genevieve Huppe, MSc**; Julie Motard, MSc; Cynthia Roy, MSc; Anthony Gelinas, BSc; Pascal Mireault, MSc
- 7:30 PM – 9:00 PM **L35** **Evaluating Drug Positivity Trends in Fatally Injured Drivers, Passengers, and Pedestrians in Connecticut**
*Amanda L.A. Mohr, MS**; Grace Cieri, BS; James R. Gill, MD; Barry K. Logan, PhD
- 7:30 PM – 9:00 PM **L36** **Drivers Under the Influence of Alcohol and Drugs: A Six-Year (2017–2022) Retrospective Analysis in a Southern Italian Region**
*Anna Carfora, PhD; Alessandro Feola, MD, PhD**; Raffaella Petrella, PhD; Giusy Ambrosio, MD; Ilaria Fracassi, MD; Paolo Palermo, MD; Martina Zampone, MD; Carlo Pietro Campobasso, MD, PhD
- 7:30 PM – 9:00 PM **L37** **Pediatric Poisoning: A Plan of Action for Early Diagnosis and Treatment**
*Pascale Basilicata; Mariagrazia Marisei, MD; Rossella Guadagni; Angela Simonelli; Gaetano Di Donna, MD; Anita Sammarco, MD; Massimo Niola, PhD; Maria Pieri**
- 7:30 PM – 9:00 PM **L38** **The Effects of Ethanol on GABA Catabolism Via GABA-Transaminase**
*Mary Corrigan**; Robert H. Powers, PhD

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- 7:30 PM – 9:00 PM **L39** ***Crotalus* Snake Venoms of North and South America: Their Symptoms, Treatments, and Potential Medical Applications**
*Victoria Hudson, MSc**; *Sajeel Shah, PhD, MS*; *Nikolas P. Lemos, PhD*
- 7:30 PM – 9:00 PM **L40** **A Review of Popular Illegal Performance-Enhancing Drugs in Sports and Gyms**
*Rami Abbas, BS**; *Sajeel Shah, PhD, MS*; *Nikolas P. Lemos, PhD*
- 7:30 PM – 9:00 PM **L41** **An Evaluation of Long-Term Health Effects From Acute Exposure to Toxic Chemicals**
*Theresa Pennington**
- 7:30 PM – 9:00 PM **L42** **Future Strategies in Drug Trend Monitoring and Harm Reduction**
*Agnieszka Urban, BSc**; *Geraldine Dowling, PhD, MSc*; *Sajeel Shah, PhD, MS*; *Nikolas P. Lemos, PhD*
- 7:30 PM – 9:00 PM **L43** **A Review of Factors Affecting the Interpretability of Postmortem Cannabinoid Concentrations and Their Limitations**
Sherri L. Kacinko, PhD; *Daniel S. Isenschmid, PhD*; *Barry K. Logan, PhD**

Thursday

Annual Lectureship in Toxicology

Moderator: Dayong Lee, PhD

Co-Moderator: Erin Karschner, PhD

- 8:30 AM – 9:45 AM **L45** **Annual Lectureship in Toxicology**
*Brandon Jeffery, MS**
- 9:45 AM – 10:15 AM **L46** **An Update on Standards Development Activities in Forensic Toxicology**
*Marc A. LeBeau, PhD**
- 10:15 AM – 10:30 AM **BREAK**

Novel Psychoactive Substances

Moderator: Svante Vikingsson, PhD

Co-Moderator: Elisa Shoff, MS

- 10:30 AM – 10:45 AM **L47** **Quantitation of Hexahydrocannabinol and Metabolites in Blood From Recreational Users**
*Robert Kronstrand, PhD**; *Markus Roman*; *Henrik Gréen*; *Michael T. Truver, PhD*
- 10:45 AM – 11:00 AM **L48** **Determining Delta 9-THC Acetate Analog Metabolites Using Human Liver Microsomes to Determine the Structure and Rate of Metabolism**
*Natalie Ortiz, BS**; *Justin L. Poklis, BS*; *Kimberly Karin, MS*; *Grace R.R. Williams, PhD*; *Carl E. Wolf, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 11:00 AM – 11:15 AM **L49** **The Metabolism of THC-O-Acetate (THCO)—An Emerging Drug Threat**
*Ya-Chih (Jessica) Cheng, MS**; *Charles R. Perkins, MS, BS*; *Sarah Kerrigan, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)

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11:15 AM – 11:30 AM	L50	A Quantitative Confirmation Assay of New and Emerging Synthetic Cannabinoids by LC/QqQ/MS <i>Haley Lynn Bibey, BS*</i> ; Sara Walton, MS; Heather L. Harris, MFS, JD; Alex J. Krotulski, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)
11:30 AM – 11:45 AM	L51	A Case Series Involving the Synthetic Cathinone Alpha-PiHP in Postmortem Forensic Investigations <i>Sara Walton, MS*</i> ; Donna M. Papsun, MS; Michael E. Lamb, MSFS, BS; Alex J. Krotulski, PhD; Simon Elliott, BSc, PhD; Kerry Taylor, BSc; Michael T. Truver, PhD; Barry K. Logan, PhD
11:45 AM – 1:00 PM		BREAK

Multidisciplinary Session: Pathology/Biology and Toxicology

Moderator: Robert Johnson, PhD

Co-Moderator: Rhonda Mittenzwei, MD

1:00 PM – 1:15 PM	L52	2C or Not Tusi? The Emergence of a New Drug Combination in Miami <i>Rocio Potoukian, BS*</i> ; Diane Moore, PhD; Kenneth Hutchins, DM (FSF Emerging Forensic Scientist Award Oral Presentation)
1:15 PM – 1:30 PM	L53	The Frequency and Analysis of Kratom in Postmortem Cases <i>William M. Schroeder, II, MS*</i> ; Donna M. Papsun, MS; Justin Brower
1:30 PM – 1:45 PM	L54	Postmortem Diagnosis of Ketoacidosis: The Importance of Beta-Hydroxybutyrate Quantification as Part of Routine Toxicological Screening at Autopsy <i>Jeroen Roosendaal, PhD*</i> ; Astrid Christiaens, MD; Kiki Van Langen, MD; Ingrid Bosman, PhD, MSFS (FSF Emerging Forensic Scientist Award Oral Presentation)
1:45 PM – 2:00 PM	L55	A Case Series of Suicides by Sodium Azide Ingestion: An Update <i>Ingrid Bosman, PhD, MSFS*</i> ; Roelof Oosting, PharmD; Dick-Paul Kloos, PhD; Bart Ruiter; Jeroen Roosendaal, PhD; Kristof Maudens, PhD
2:00 PM – 2:15 PM	178	I Didn't Want to Kill Him! The Role of Cocaine in Pseudoasphyxia by Compression of the Carotid Sinus <i>Eleonora Mezzetti, MD*</i> ; Matteo Leoni, MD; Andrea Costantino, MD; Carla Occhipinti, MD; Rebecca Pieretti, MD; Aniello Maiese, MD
2:15 PM – 2:30 PM	179	Not So Much the "Spice" of Life: Identifying a Source for a Series of MDMA-4en-PINACA Deaths <i>Michael Chaump, MD*</i> ; Robert Johnson, PhD; Aria McCall, BS; Kei Osawa, MFS; Steven J. Hemberger, DO; Mark E. Shelly; Richard Fries; Dana Hopson, MD
2:30 PM – 2:45 PM	180	Elevated Beta-Hydroxybutyrate Within a Pediatric Population and Its Associated Pathology: A Retrospective Case Series <i>Nasim Haghandish, MDCM, PhD*</i> ; Chris Milroy, MD, LLB; Jacqueline Parai, MD; Anthea Lafreniere, MD
2:45 PM – 3:00 PM	181	Pediatric Fatalities Due to Methadone Toxicity in Cook County, Illinois: Considerations on the Manner of Death <i>Lorenzo Gitto, MD*</i> ; Daniel S. Isenschmid, PhD; Ponni Arunkumar, MD
3:00 PM – 3:15 PM		BREAK

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Drugs and Driving Special Session

Moderator: Marilyn Huestis, PhD

Co-Moderator: Curt Harper, PhD

- 3:15 PM – 3:30 PM **L56** **Ketamine in Driving Under the Influence of Drugs (DUID) Cases: 2015–2023**
*Amanda L. D’Orazio, MS**; *Ayako Chan-Hosokawa, MS*
- 3:30 PM – 3:45 PM **L57** **DUID Cannabinoid Investigations: Blood, Oral Fluid, or Urine—Which Is the Superior Specimen?**
*Curt E. Harper, PhD**; *Clarissa Lawen*; *Kristin Tidwell, BS*; *Gil Sapir, JD, MSc*
- 3:45 PM – 4:00 PM **L58** **The Detection of Cannabinoids in Exhaled Breath Condensate After Cannabis Use**
*Jennifer L. Berry, PhD**; *Kavita M. Jeerage, PhD*; *Cheryle N. Beuning, PhD*;
Ashley Brooks-Russell, PhD; *Tara Lovestead, PhD*
- 4:00 PM – 4:15 PM **L59** **Cocaine and Benzoyllecgonine in Blood and Oral Fluid of DUID Cases (2018–2022)**
*Michael L. Weaver**; *Clarissa Lawen*; *Christopher Bartle*; *Curt E. Harper, PhD*
- 4:15 PM – 4:30 PM **L60** **Mile High: A Five-Year Review of Fentanyl Trends in Colorado Impaired Driving Cases**
*Stephanie Olofson, BS, MS**
- 4:30 PM – 4:45 PM **L61** **Impaired Driving Cases With Bromazolam**
*Nicholas B. Tiscione, MS**; *Edward Zumaeta*

Friday

General Forensic Toxicology

Moderator: Chris Heartsill, BSc

Co-Moderator: Aaron Shapiro, PhD

- 8:30 AM – 8:45 AM **L62** **An Outlook on Fentanyl Adulteration: Polydrug Circumstances, Trends, and Tomorrow’s Forecast**
*Alex J. Krotulski, PhD**; *Sara Walton, MS*; *Donna M. Papsun, MS*; *Joshua S. DeBord, PhD*;
Barry K. Logan, PhD
- 8:45 AM – 9:00 AM **L63** **Controlled Oral Kratom Leaf Administration to Healthy Humans: Abuse Potential- and Withdrawal-Related Effects, Adverse Events, and Mitragynine and 7-Hydroxy-Mitragynine Plasma Pharmacokinetics**
*Marilyn A. Huestis, MS, PhD**; *John Bothmer, PhD*; *Thomas Hudzik, MS, PhD*;
Jack E. Henningfield, BA, PhD; *Ramsey Atallah, BA*
- 9:00 AM – 9:15 AM **L64** **The Extraction’s Always Greener on the Other Side**
*Madeleine E. Wood, MS**; *Joshua Z. Seither, PhD*; *John J. Kristofic, BS*; *Erin Karschner, PhD*;
Jeffrey P. Walterscheid, PhD
- 9:15 AM – 9:30 AM **L65** **Homoamphetamine: A Cautionary Tale**
*Laura Friederich, BS**; *Sandra Bishop-Freeman, PhD*
- 9:30 AM – 9:45 AM **L66** **The Bath Salts State: A Comprehensive Review of Substituted Cathinones in Miami From 2011 to 2023**
*Elisa N. Shoff, MS**; *Zaney E. Mary, BS*; *Diane Moore, PhD*

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- 9:45 AM – 10:00 AM **L67** **The Search for the K-Hole: A Six-Year Study of Ketamine in Postmortem Cases From the Miami-Dade County Medical Examiner Department, 2018–2023**
*Jennifer Gonyea, BS**; *Diane Moore, PhD*
- 10:00 AM – 10:15 AM **L68** **Segmented Workflows and the Confrontation Clause: Achieving Congruence Between Constitutional Guarantees, Laboratory Productivity, and Toxicological Expertise**
*M.J. Menendez, JD**; *Barry K. Logan, PhD*; *Daniel T. Anderson, MS*; *Donna M. Papsun, MS*
- 10:15 AM – 10:30 AM **BREAK**

Alternative Matrices

Moderator: Marta Concheiro-Guisan, PhD

Co-Moderator: F. Wayne Lewallen, BS

- 10:30 AM – 10:45 AM **L69** **A Quantitative Analysis of Cannabis Exposure Biomarkers in Exhaled Breath Condensate and Oral Fluid**
*Meena Swaminathan, MSFS**; *Anthony P. DeCaprio, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 10:45 AM – 11:00 AM **L70** **The Use of Hair Analysis as a Potential Predictor of Tolerance in Decedents With High Fentanyl Concentrations in Fentanyl-Related Deaths: Preliminary Results**
*Nicola Pigaiani, MD**; *Marco Ballotari, PhD, MA*; *Brandi C. McCleskey, MD*; *Francesco Taus, PhD*; *Federica Bortolotti, MD, PhD*; *Rossella Gottardo, PhD*; *Gregory G. Davis, MD, MSPH*; *Karen S. Scott, PhD*
- 11:00 AM – 11:15 AM **L71** **A Quantitative Assessment of Five Hair Drug Testing Laboratories With a Commercial Hair Reference Material**
*Edwin Dale Hart, BS**; *Svante Vikingsson, PhD*; *Ruth E. Winecker, PhD*; *Eugene D. Hayes, PhD*; *Lisa S. Davis, MS*; *Ron Flegel, MS*
- 11:15 PM – 11:30 AM **L72** **The Gonadotoxic Effects of Tobacco Smoking on Human Seminal Fluid**
*Nadeem-Ul-Hassan Khan**; *Allah Rakha**; *Rahat Abdul Rehman**; *Shahid Nazir, PhD*; *Tahmina Rehman*
- 11:30 AM – 11:45 AM **L73** **The Identification of the New Synthetic Opioid N-Piperidinyl Etonitazene (Etonitazepipne) in Postmortem Alternative Matrices**
*Erika Buratti, PhD**; *Gianmario Mietti, PhD*; *Alice Cerioni, PhD*; *Marta Cippitelli, PhD*; *Rino Frolidi, MSc*; *Mariano Cingolani, MD, MSc*; *Roberto Scendonì, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 11:45 AM – 1:00 PM **BREAK**

23rd Annual Postmortem Pediatric Forensic Toxicology Session

Moderator: Robert Middleburg, PhD

Co-Moderator: Nikolas P. Lemos, PhD

- 1:00 PM – 3:00 PM **L74** **Postmortem Pediatric Forensic Toxicology**
*Robert A. Middleberg, PhD**; *Nikolas P. Lemos, PhD**; *Katherine Kenerson, MD**; *Andrew Baker, MD**; *Sterling J. McLaren, MD**; *Diane Moore, PhD**; *Mary Zaney, BS**