

Scientific Program Schedule

Tuesday, September 12

8:00am-10:00am

Scientific Session 1A: General Toxicology

Moderators: Robert Johnson and Robert Kronstrand

8:00am-8:05am	Hosts Welcome	Dan Anderson and Ruth Winecker
8:05am-8:20am	OSAC Update	Mark LeBeau and Melissa Kennedy
8:20am-8:30am	S01: LSD Is on a New High	Jeff Walterscheid
8:30am-8:40am	S02: Detection of U-47700 in Blood and Drug Paraphernalia from Postmortem Cases	M. Elizabeth Zaney
8:40am-8:50am	S03: Rapid Field Testing of Nicotine in E-Liquids	Ryan Joiner
8:50am-9:00am	S04: Analysis of Cocaine Analogues Impregnated into Textiles by Raman Spectroscopy	Shanlin Fu
9:00am-9:10am	S05: Gas Chromatography-Mass Spectrometry Determination of Heroin in Adulterated Commercial Beverage in Transport Drug	Hui-fangjie Li
9:10am-9:20am	S06: On-site identification of chemical warfare agents by portable gas-chromatography mass spectrometry instrument with Tri-Bed micro-concentrator and VX-G conversion tube	Yasuo Seto
9:20am-9:30am	S07: The In Vitro Inhibition of Opioid Metabolism by Skeletal Muscle Relaxants	David E. Moody
9:30am-9:40am	S08: The National Forensic Laboratory Information System (NFLIS): Expansion Feasibility Study for Drug-related Mortality and Toxicology Findings	Katherine Moore
9:40am-9:50am	S09: Characterization of Guanidine Based Biocidal Polymers using Liquid Chromatography and Tandem Mass Spectrometry	Heeseung Kim

8:00am-10:00am

Scientific Session 1B: Post Mortem Toxicology

Moderators: Kevin Shanks and Dayong Lee

8:00am-8:05am	Hosts Welcome	Dan Anderson and Ruth Winecker
8:05am-8:20am	OSAC Update	Mark LeBeau and Melissa Kennedy
8:20am-8:30am	S10: Analysis of Fentanyl in Vitreous Humor Compared to Blood Fentanyl Levels in Postmortem Cases	Amanda L.A. Mohr
8:30am-8:40am	S11: Para-Phenylenediamine Quantification in Ante-mortem and Post-mortem Matrices using Single Step Liquid-liquid Extraction and Gas Chromatograph-Mass Spectrometry: Application in Fatal p-Phenylenediamine Poisoning	Muhammad Imran

8:40am-8:50am	S12: Cannabis and Fitness to Dive: About Two Cases With Fatal Outcomes	Bertrand Brunet
8:50am-9:00am	Decomposition Kinetics of DDVP in Stored Human Blood under Different Storage Conditions	Yongtao Liu
9:00am-9:10am	S14: Detection of Volatile Hydrocarbons from Gasoline in Whole Blood by Solid-Phase Microextraction-Gas Chromatography-Mass Spectrometry (SPME-GC-MS)	Marissa J. Finkelstein
9:10am-9:20am	S15: A Comparison Between Postmortem Blood and Hair Samples from Victims of Violent Deaths in Brazil	Ana Miguel Fonseca Pego
9:20am-9:30am	S16: Systematic Study on the Time-Dependent Post Mortem Redistribution of Opioids	Lana Brockbals
9:30am-9:40am	S17: Postmortem Fluid and Tissue Concentrations of THC, 11-OH-THC, and THC-COOH	Sunday R. Saenz
9:40am-9:50am	S18: Postmortem Levels and Tissue Distribution of Codeine, Codeine-6-glucuronide, Norcodeine, Morphine and Morphine	Joachim Frost

10:00am-10:30am Refreshment Break Grand Ballroom

10:30am-12:00n
Scientific Session 2A: New Psychoactive Substances
Moderators: Sumandeep Rana and Dani Mata

10:30am-10:50am	S20: Update on the Department of Justice's Efforts to Curb the Opioid Epidemic	MJ Menendez
10:50am-11:00am	S21: Evaluating the Use of Kendrick Mass Defect Analysis for Rapid Discovery of New Psychoactive Substances in Non-Targeted Screening Approaches	Daniel Pasin
11:00am-11:10am	S22: Deaths Related to Abuse of 3-Methylfentanyl in the United States	Melissa Friscia
11:10am-11:20am	S23: Development of a LC-MS/MS-Based Method for the Multiplex Detection of Fentanyl Analogs in Whole Blood at Sub ng/mL to 1ng/mL Concentrations	Kraig E. Strayer
11:20am-11:30am	S24: Postmortem Detection of Despropionyl Fentanyl in Drug Related Deaths	Matthew N. Newmeyer
11:30am-11:40am	S25: NPS Identification by Portable Raman Instrument During On-Field Drug Checking	Enrico Gerace
11:40am-11:50am	S26: An Efficient Screening Approach for Fentanyl Analogs Using A Single Extraction Sequential GC-MS and LC-MS/MS Analysis	Rebecca T. DeRienz
11:50am-12:00n	S27: Validation of a Comprehensive UHPLC-MS/MS Method to Quantify Six Novel Fentanyl Analogues in Postmortem Specimens	Joseph H. Kahl

10:30am-12:00n

Scientific Session 2B: Award Winners
Moderators: Erin Spargo and Heesun Chung

10:30am-10:40am	S28: Stability of Mephedrone, Naphyrone, and MDPV in Solvents and Na ₂ EDTA Preserved Human Whole Blood	Heather Ciallella
10:40am-10:50am	S29: Evaluation of artificial drug incorporation into hair for the production of quality control samples	Flávia Lopes Roveri
10:50am-11:00am	S30: The Invisible Threat from the Wells	Ana Doina Radu
11:00am-11:10am	S31: Analysis of the Antiretroviral, Efavirenz, in Hair Samples from HIV-Infected Patients by Liquid Chromatography Tandem Mass Spectrometry: a Novel Method of Therapeutic Drug Monitoring in South Africa	Jenna Johnston
11:10am-11:20am	S32: Qualitative Identification of Fentanyl Analogues and Other Opioids in Postmortem Cases by UHPLC-Ion Trap-MSn	Elisa N. Shoff
11:20am-11:30am	S33: Broad and Comprehensive Screening of Novel Psychoactive Substances in Post-Mortem Matrices by Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)	Michael Fagiola
11:30am-11:40am	S34: Investigation of Post-Mortem Redistribution From The Bladder Using In-Vitro Models	Emma C Lomas

12:00pm-1:30pm Lunch with Exhibitors Grand Ballroom

12:00n-1:30pm
Poster Session A: New Psychoactive Substances
Moderator: Jasmynne M. Royals

P1: New Psychoactive Substances (NPS)-Related Deaths in Taiwan During the 2012–2016 Period	Yun-Chen Tsao
P2: Separation of Ortho, Meta and Para Isomers of Methylmethcathinone (MMC) and Methylethcathinone (MEC) Using LC-ESI-MS/MS: Application to Forensic Serum Samples	Alexandra Maas
P3: Prevalence of Synthetic Cannabinoid Receptor Agonists in Sub-Populations in Scotland	Alice Seywright
P4: Simultaneous Detection of New Psychoactive Substances from a Single Sample of Human Urine by Incorporating New Tests Alongside Already Existing Test Sites on a Biochip Array	E. Johnston
P5: A Fatal Poisoning Involving 2-Fluorofentanyl	Mette Findal Andreasen
P6: Analysis of Selected Designer Benzodiazepines by Ultra High Performance Liquid Chromatography with High-Resolution Time-of-Flight Mass Spectrometry	Jana Tomková
P7: How Generic Narcotics Laws (do not) Influence the Legal High Market	Sebastian Halter
P8: Using Direct MS and Microextraction for Drug Screening from Biological Matrices	Emily Barrey
P9: Differentiation of <i>o</i> -, <i>m</i> -, <i>p</i> -fluorine Positional Isomers of Synthetic Cannabinoid 'AB-FUBINACA' and Synthetic Cathinone 'Fluoromethcathinone' Using Triple Quadrupole Energy-Resolved Mass Spectrometry	Takaya Murakami
P10: Development of a New Biochip Array for the Detection of Multiple Illicit Fentanyl Compounds and Derivatives from One Urine Sample	L. Keery

P11: Phase I Metabolism of the New Synthetic Cannabinoid Cumyl-4CN-BINACA and Detection in Human Urine Samples	Florian Franz
P12: Opioid Toxidrome after Cocaine Sniffing: First Case in Europe of Non-Fatal Overdose by Carfentanil Laced Cocaine	Eysseric-Guérin H.
P13: Jefferson County Fentalogues: A 6 Month Review	Rachel C. Beck
P14: Evaluation of New Developed Antibodies to AH-7921, Carfentanil, MT-45, and U-47700 for Application to ELISA Based Screening of Designer Opioid Use	F. O'Muilleoir
P15: RTI-111 – New Research Chemical or Old Acquaintance?	Christina Grumann
P16: New Psychoactive Substances in Chile	Fuentes Paula
P17: Prevalence of Novel Psychoactive Substances and Classic Drugs of Abuse in Pain Management and Mental Health Populations	Lauren Ward
P18: Analysis of Fentanyl and Designer Fentanyl Derivative in Urine Using SPE and HPLC MS/MS	Danielle Mackowsky
P0: The Impact of Buprenorphine/Naloxone Ratio on Apparent Adherence to Suboxone® Therapy	Oneka Cummings
P19: Stability and Validation of 26 Synthetic Cannabinoids in Urine at Various Storage Conditions by LC-MS/MS	Paul Guidry
P20: Phase I Metabolism of the Synthetic Cannabinoid CUMYL-PEGACLONE	Lukas Mogler
P21: Fentanyl and Fentanyl Related Substances Reported in NFLIS, 2014–2016	Katherine Moore
P22: Development of Solution Based Certified Reference Materials of Carfentanil and Related Compounds	Jodi Kirk
P23: “Death Grip” Intoxication- Identification of 5-Fluoro ADB in a Human Performance and Postmortem Case Sample	Lisa J Reidy
P24: Metabolomics of N-Ethyl Pentylone: Study Involving a Designer Cathinone Analogue using Human Liver Microsomes	Bruno Spinosa De Martinis
P25: Screening Method for NBOMes in Whole Blood Using LC-MS/MS Precursor Ion Scan and Library Search	Damila Rodrigues de Morais
P26: Prevalence of Recreational Drugs and New Psychoactive Substances Based upon Geographical Areas in the United States	Lynn M. Wagner, PhD
P27: Ecstasy, Molly, and MDMA: The Novel Stimulants Infiltrating the Designer Drug Market	Alex Krotulski
P28: Case Report: A Sudden Death Following the Consumption of ADB-FUBINACA	Balázs László Tajti
P29: Metabolism of Butyrylfentanyl and Beta-Hydroxythiofentanyl in Human Hepatocytes	Ariane Wohlfarth
P30: Development of an LC-MS/MS Method for the Simultaneous Determination of 40 Synthetic Cathinones in Urine with Multi-Mode Reversed Phase Column Using pH Gradient Elution and Stability of the Synthetic Cathinones in Urine	Hyeyoung Choi
P31: Characterization and <i>In Vitro</i> Phase I Microsomal Metabolism of Designer Benzodiazepines – an Update Comprising Flunitrazolam, Norflurazepam and 4'-Chlorodiazepam	Bjoern Moosmann
P32: Non-Pharmaceutical Fentanyls Encountered by the Alabama Department of Forensic Sciences (ADFS)	Hui Liu Yong
P33: Designing A Molecular Imprinted Polymer Based QCM Biosensor for Simple Synthetic Cannabinoid Testing in Urine	Dilek Battal

P34: Metabolic Studies of Synthetic Cannabinoid APINAC	Sergey Savchuk
P35: Determination and Validation of 5F-NPB-22 and 5F-ADBICA in Whole Blood and Urine	Pinar Efeoglu Ozseker
P36: Synthetic Cannabinoids 5F-ADB and ADB-FUBINACA in Postmortem Samples of Inmates in Alabama	Karen Hart Valencia
P37: Furanyl-Fentanyl Sold Illicitly in Toronto, Canada as Fentanyl Pills – A Clinical Case Investigation Through Urine Drug Screening	Adam S. Ptolemy

12:00n-1:30pm
Poster Session B: Analytical Toxicology
Moderator: Jasmynne M. Royals

P38: Novel Automated Approach for the Analysis of Δ^9 -tetrahydrocannabinol and its Two Main Metabolites in Blood Using Tip-On-Tip Filtration and DPX Extraction	Kaylee R Mastrianni
P39: Rapid Automated Protein Crash Method Using Novel Tip-On-Tip Filtration	Kaylee R Mastrianni
P40: Analysis of Commercially Available Beta-Glucuronidase Enzymes and Optimum Hydrolysis Conditions in Urine for Licit and Illicit Drugs Using In-Well Hydrolysis	Jillian Neifeld
P41: Evaluation of Solid Phase Extraction (SPE) Compared to Supported Liquid Extraction (SLE+) as Sample Preparation Techniques for LC-MS/MS Detection of 49 Drugs and Metabolites in Umbilical Cord Tissue	Simuli L. Wabuye
P42: The Application of UPLC-MS/MS to the Study of Amygdaline Stability, Metabolism Prediction and Toxicity	Viktor Vorisek
P43: Enzyme Activity Determined with Phenolphthalein-Glucuronide Correlates Weakly with Hydrolysis Efficiency	Cathleen Melendez
P44: LC-MS/MS Analysis with On-line Cartridge for Removal of Phospholipids from Protein Precipitation Biological Fluid Samples	Xiaoning Lu
P45: Urine Clean-up for EtG/EtS Analysis on LC-MS/MS and Automation on Robotic Platforms	Evan DiVirgilio
P46: Esterase Activity in Commercially Available Crude β -Glucuronidases Correlates to Loss of Heroin and Cocaine Metabolites	Pongkwan Nikki Sitasuwan
P47: Targeted Forensic Screening and Semi-Quantitation of Drugs in Plasma Using High Resolution Accurate Mass Detection and On-line Sample Preparation	Kristine Van Natta
P48: Extraction Optimization for LC-MS/MS Quantitation of Cannabinoids and Metabolites in Umbilical Cord Tissue and Meconium	Triniti Scroggin
P49: Anodyne by Design; Detecting Designer Opiates in Pain Management	Anna Miller
P50: Cross-Reactivity of Novel Opioids, Fentanyl Analogs, Designer Benzodiazepines and Mitragynine with Various Immunoassay Kits	Karen S Scott
P51: Ritalinic Acid in Urine: Modelling Data to Assist with Determination of Patient Adherence	Sheng Feng
P52: Evaluating the Effectiveness of Liquid Chromatography-Time of Flight-Mass Spectrometry (LC-TOF-MS) as a Replacement Screening Tool in a Full-Service, State Forensic Toxicology Laboratory	Dawn Sklerov
P53: Development of Homogeneous Enzyme Immunoassay For The Detection Of Bath Salts I (α -pyrrolidinophenones) in Human Urine	Anlong Ouyang

P54: Development of a New Homogeneous Enzyme Immunoassay for the Detection of Zolpidem and its Metabolite Zolpidem-Phenyl-4-COOH in Human Urine	Pong Kian Chua
P55: Development of a Homogeneous Enzyme Immunoassay for the Detection of AB-PINACA, its Metabolites and Related Compounds in Human Urine	Chi-Yun Pai
P56: Method Validation for Simultaneous Quantification of Fentanyl, Nor-Fentanyl and Acetyl Fentanyl in Blood and Identification in Urine Using LC-MS/MS	Protiti Sarker
P57: The Optimization of Extraction and Derivatization for Quantitative Analysis of Common and New Amphetamine- and Cathinone-Derivatives in Serum and Urine Using GC-MS	Elöd Hidvégi
P58: Development and Validation of a New and Highly Sensitive rFab-based SEFRIA™ Immunoassay for the Detection of Phencyclidine in Oral Fluid	Guohong Wang
P59: Development of a Homogeneous Enzyme Immunoassay for the Detection of UR-144/XLR-11 and Structurally Related Synthetic Cannabinoids in Human Urine	Anne Lakshmi
P60: Development of a Highly Sensitive Oral Fluid ELISA for PINACA and Related Synthetic Cannabinoids	Warren Rodrigues
P61: Development and Validation of a Polyclonal Antibody for Detection of the Crack Cocaine Biomarker AEME in Oral Fluid	Warren C. Rodrigues
P62: The Microscale Preparation of Designer Benzodiazepine Standards for Toxicological and Forensic Analysis	Geraldine Dowling
P63: Drugs of Abuse Extraction from Whole Blood using Supported Liquid Extraction (SLE) and Extrahera Automation prior to UPLC-MS/MS Analysis	Paul Roberts
P64: Validation of Mitragynine Immunoassay on Tecan Freedom Evo 75 with Randox ELISA Kit	Kristen Ellis
P65: Simultaneous Determination of Amphetamine Derivatives and New Psychoactive Substances in Urine by Gas Chromatography-Mass Spectrometry	SungIll Suh
P66: Recommendations for the determination of matrix suppression in biological samples by UPLC-ESI-MS/MS: Extending Quality Measures in Forensic Toxicology	Jamie Foss
P67: Wash and Elution Analysis of both pH Insensitive and Responsive Analytes in Urine for Large Drugs of Abuse Panels Using Polymeric Mixed-Mode Cation Exchange	Dan Menasco
P68: Hydrolysis Efficiency Comparison of Two Beta-Glucuronidases: BG1000 and BGTurbo0	Rocio Peralta
P69: Development of an Analytical Method for the Detection of Non-Declared Anabolic Steroids in Dietary Supplements in Brazil	Idylla Tavares
P70: LC-MS/MS Analysis of Phytocannabinoids and Their Metabolites in Urine, Oral Fluid and Blood	Rory Doyle
P71: A Comparison of Screening and Quantitative LC-MS/MS Analysis of Drugs and Their Metabolites in Urine, Oral Fluid and Blood on Triple Quadrupole and Quadrupole Orbitrap Mass Spectrometers for Forensic Use	Rory Doyle
P72: Detection of Morphine Glucuronides of High Heroin Positives in Oral Fluid	Piyadarsha Amaratunga
P73: Opioid Quantitation using DPX Tips and Semi-Automated Integra Pipetting System on QQQ	Rebekah Boswell
P74: Analyte-Dependent Stability of Synthetic Cathinones	Lindsay Glicksberg
P75: Quantification of Suvorexant in Blood Using LC-Q-TOF-MS	Britni Skillman

1:30pm-3:30pm

Scientific Session 3A: Alternative Matrices

Moderators: Pascal Kintz and Marta Concheiro-Guisan

1:30pm-1:40pm	S35: Analysis of Ethyl Sulfate in Oral Fluid by Liquid Chromatography Tandem Mass	Melinda S. Filman
1:40pm-1:50pm	S36: Prevalence of <i>In Utero</i> Exposure to Drugs in a Cohort of Neonates and Mothers by an Extended Toxicological Screening in Biofluids and Hair	Donata Favretto
1:50pm-2:00pm	S37: Case Report: Unusual Urine and Oral Fluid Results After Poppy Seed Muffin Consumption	Sarah H. Bartock
2:00pm-2:10pm	S38: Increase of Amphetamine Concentration in Cosmetically Treated Hair	M Jose Burgueño
2:10pm-2:20pm	S39: A New Method for Human Hair Analysis of 132 Various Types of Novel Psychoactive Substances by Tandem LC-MS	Vassiliki Boumba
2:20pm-2:30pm	S40: Detection and Quantification by LC-MS/MS of Opioid Glucuronides in Hair of Opioid Users	Megan Grabenauer
2:30pm-2:40pm	S41: Disposition of Cannabinoids in Oral Fluid and Whole Blood after Vaporized and Smoked Cannabis	Edward Cone
2:40pm-2:50pm	S42: Simultaneous Extraction of Propofol and its Major Mebatolite Propofol Glucuronide from Hair Followed by LC-MS/MS Analyses	Alexandra Maas
2:50pm-3:00pm	S43: Retrospective Demonstration of 25I-NBOMe Acute Poisoning with Dramatic Outcome, Using Hair Analysis	Alice Ameline
3:00pm-3:10pm	S44: Interpretation of Cannabis Findings in the Hair of Very Young Children: Mission Impossible	Pascal Kintz

1:30pm-3:30pm

Scientific Session 3B: General Toxicology

Moderators: Rong-Jen Hwang and Maria Martinez

1:30pm-1:40pm	S45: Estimating Time of Last Oral Ingestion of Clozapine from Whole Blood Clozapine and Demethylclozapine Concentrations	Erin C. Strickland
1:40pm-1:50pm	S46: Metabolic Fate of Alpha-Cathinones for Urine Screening Purposes Using a Comprehensive <i>In Vitro</i> System in Comparison to Human Liver Microsomes, Primary Human Hepatocytes, and Authentic Human Urine	Sascha Kevin Manier
1:50pm-2:00pm	S47: Analysis of the Pharmacokinetic/Pharmacodynamic Relationship of Two Smoked Doses of THC vs Placebo in Occasional (OU) and Chronic (CU) Users of Cannabis	Jean Claude Alvarez
2:00pm-2:10pm	S48: Quantitative Estimation of Aluminium in Fatal Aluminium Phosphide Poisoning Cases Using Inductively Coupled Plasma- Atomic Emission Spectrophotometry	Professor (Dr) Adarsh Kumar
2:10pm-2:20pm	S49: Forensic Toxicology: One of the Roads Towards Sustainable Development	José Restolho

2:20pm-2:30pm	S50: Stability of Cannabis Compounds in Biological Fluids During Post-Analysis Custody	C. Jurado
2:30pm-2:40pm	S51: Utilizing Nuclease Screening of Ligand-Aptamer Complexes to Enhance Specificity of an Aptamer-Based Cocaine Assay	Yi Xiao
2:40pm-2:50pm	S52: Fast and Simple Quantitative Analysis of Phosphatidylethanol (PEth) 16:0/18:1 in Whole Blood – A Direct Biomarker Suitable for Evaluation of Long-Term Alcohol Intake	Trine Naalsund Andreassen
2:50pm-3:00pm	S53: Confirmation of Metabolites of the Neuroleptic Drug Prothipendyl Using Human Liver Microsomes, Specific CYP Enzymes and Authentic Forensic Samples – Benefit for Routine Drug Testing	Michael Kraemer
3:00pm-3:10pm	S54: Detection of Drug Residues in Work Areas of New South Wales Police Stations	Greg Doran
3:10pm-3:20pm	S55: Fast Forensic Toxicological Screening and Quantitation Under 3 Minutes with a QTOF LC-MS/MS System	Xiang He
3:20pm-3:30pm	S56: Frequency of Other Pain Drugs and Illicits in Gabapentin Positive Patients	Erin C. Strickland

3:30pm-4:00pm Refreshment Break Grand Ballroom

4:00pm-5:00pm

Scientific Session 4A: Clinical Toxicology

Moderators: Markus Meyer and Marisol Castaneto

4:00pm-4:10pm	S57: Quantification of Cocaine and Its Metabolites in Dried Blood Spots from a Controlled Administration Study	Lars Ambach
4:10pm-4:20pm	S58: Pharmacodynamic Comparison of Acute Cannabis Effects Following Oral, Smoked, and Vaporized Administration	Ryan Vandrey
4:20pm-4:30pm	S59: Morphine Concentrations in Human Urine following Poppy Seed Paste Consumption	Serap Annette Akgur
4:30pm-4:40pm	S60: Chemsex Study Through Five Cases with Two Deaths	Catherine Monteil-Ganiere
4:40pm-4:50pm	S61: Phosphatidylethanol (PEth) Compared with Other Direct (EtG) and Indirect (GGT/MCV, CDT) Alcohol Biomarkers to Assess the Risk Drinking Status	Michael Boettcher

4:00pm-5:00pm

Scientific Session 4B: General Toxicology

Moderators: Kristof Maudens and Frances Scott

4:00pm-4:10pm	S62: Dripping Meets Dabbing: Cases Using the Rebuildable Dropper Atomizer to Vape Non-Traditional E-liquids and Drugs-Other-Than-Nicotine (DOTNs)	Haley Mulder
4:10pm-4:20pm	S63: Validated Assay for Determination of Ergocristine, Ergocryptine, Ergotamine, Ergovaline, Lolitrem B, Lysergic acid, N-Acetylloine, N-Formylloine, Peramine, and Paxilline in Horse Serum	Wiebke Rudolph

4:20pm-4:30pm	S64: Targeted Human Metabolome Analysis after a Single Intake of 3,4-Methylenedioxyamphetamine (MDMA) in Healthy, Placebo-Controlled Subjects	Martina Boxler
4:30pm-4:40pm	S65: An Attempt to Acquire the Nostradamus Effect: The First Case of Intravenous Use of the Tricyclic Antidepressant Tianeptine	Sara Dempsey
4:40pm-4:50pm	S66: N-Acetyltaurine as a Novel Ethanol Marker in Blood and Urine	Marc Luginbühl

Wednesday, September 13

8:00am-10:00am

Scientific Session 5A: New Psychoactive Substances
Moderators: Ariane Wohlfarth and Madeline Swortwood

8:00am-8:10am	S68: Relative Abundances of 5F-ADB and its Ester Hydrolysis Metabolite in Carboxylesterase-Containing Tissue Specimens	Maiko Kusano
8:10am-8:20am	S69: Characterization of Potency and Efficacy of a Series of New Fentanyl Analogues	Davide Guerrieri
8:20am-8:30am	S70: Strategies for the Analysis of Synthetic Cannabinoid Metabolites Illustrated by the Separation of 24 Metabolites and Structure Analogs of AKB-48 and 5F-AKB-48	Svante Vikingsson
8:30am-8:40am	S71: Phase I Metabolism of Desomorphine	Jessica Winborn
8:40am-8:50am	S72: Analysis of the Influence of 3,4-Methylenedioxy-N-Methylamphetamine (MDMA) on the Metabolome of Zebrafish Larvae as a Simple Vertebrate Model	Michael Pöttsch
8:50am-9:00am	S73: Metabolic Profile Determination of U-47700 and U-49900 using Human Liver Microsomes and Authentic Human Urine Specimens	Alex Krotulski
9:00am-9:10am	S74: Toxicokinetic Modelling of JWH-210, RCS-4, and THC in Pig Serum after Pulmonary Administration	Nadine Schaefer
9:10am-9:20am	S75: Characterization of the New Synthetic Fentanyl Derivatives 4-Chloroisobutyrfentanyl, 4-Methoxybutyrfentanyl, Benzodioxolfentanyl, Cyclopentylfentanyl, Methoxyacetylfentanyl, and Tetrahydrofuranfentanyl and Identification of their <i>In Vitro</i> Phase I Main Metabolites	Maurice Wilde
9:20am-9:30am	S76: Identification, Characterization and Pharmacological Evaluation of New Psychoactive Substances Exemplified by the Recently Emerged Synthetic Cannabinoid CUMYL-PEGACLONE	Lukas Mogler
9:30am-9:40am	S77: Designer Benzodiazepine Use in the Prison Population in Scotland	Lauren C O'Connor
9:40am-9:50am	S78: UHPLC-MS Impurity Profiling of Spice-Products Containing the Synthetic Cannabinoids MDMB-CHMICA Assisted by Multi-Variate Data Analysis	Sascha Muenster-Mueller
9:50am-10:00am	S79: Fatalities Involving Carfentanil and Furanyl Fentanyl: Two Case Reports	Dina Swanson

8:00am-10:00am

Scientific Session 5B: Analytical Toxicology
Moderators: Ilkka Ojanperä and Kayla Ellefsen

8:00am-8:10am	S80: A Qualitative/Quantitative LC-MS/MS Workflow for Comprehensive Drug Detection in Oral Fluid Samples	Herbert Oberacher
8:10am-8:20am	S81: Comparison and Evaluation of Recombinant b-Glucuronidases for Urine Drug Testing	Tania Sasaki
8:20am-8:30am	S82: Toxicology Screening Approaches Take Flight: The Utilization of ESI LC-qToF Workflows in a High Throughput Laboratory Amidst the Opioid Epidemic and the Designer Drug Era	Joanna Porter
8:30am-8:40am	S83: Qualitative Method Validation: A First Approach Through Binary Results Applied to a Multi-Drug LC-MS/MS Method	Brigitte Desharnais
8:40am-8:50am	S84: An Activity-Based Screening Method for Synthetic Cannabinoids: From Concept to Application	Annelies Cannaeert
8:50am-9:00am	S85: New Bioassay for Detection and Activity Profiling of Synthetic Opioids	Annelies Cannaeert
9:00am-9:10am	S86: A Multi-Analyte LC-MS/MS Based Screening Approach Combined with Simultaneous UV-DAD Quantification of Drugs in Blood and Urine	Annette Cronin
9:10am-9:20am	S87: NIST Standard Reference Materials (SRMs) for Drug Toxicology Measurements - Past, Present, Future	William MacCrehan
9:20am-9:30am	S88: High Throughput Protein Precipitation: Screening and Quantification of 106 Drugs and Their Metabolites Using LC-MS/MS	Cynthia Côté
9:30am-9:40am	S89: Detection of Neonatal Cannabis Exposure by Umbilical Cord Analysis	Marta Concheiro
9:40am-9:50am	S90: Determination of Twelve Commonly Found Compounds in DUI Cases in Whole Blood Using Fully Automated Supported Liquid Extraction and UHPLC-MS/MS	Lena Kristoffersen
9:50am-10:00am	S91: Practical Application of a Screening Procedure for more than 3000 Compounds in Whole Blood by UHPLC-TOF-MS ^E	Petur Weihe Dalsgaard

10:00am-10:30am Refreshment Break Grand Ballroom

10:30am-12:00n
Scientific Session 6A: Alternative Matrices
Moderators: Marilyn Huestis and Donata Favretto

10:30am-10:40am	S92: Implementation of an Oral Fluid Drug Testing Program in Alabama: An Evaluation of Draeger DT5000, Alere DDS2, and Randox MultiSTAT with LC-MS/MS Confirmation	Curt E. Harper
10:40am-10:50am	S93: Quantification of Pheniramine in Alternate Matrices (Hair, Nails and Saliva): Comparison with Corresponding Concentration in Conventional Matrices (Blood and Urine) in Drug Abusers	Humera Shafi Makhdoom
10:50am-11:00am	S94: The Validation of 11 Synthetic Cathinones in Blood, Urine and Hair by UPLC-MS/MS	Lauren Wolfe
11:00am-11:10am	S95: Are Nails an Alternative to Hair for the Assessment of Drugs of Abuse Consumption? A Correlation Study	Delphine Cappelle
11:10am-11:20am	S96: Prevalence of Synthetic Cathinones Identified by Hair Analysis in Paris and its Suburbs Over Five Years	Amine Larabi

11:20am-11:30am	S97: Determination of AB-CHMINACA and its Metabolites in Human Hair and their Deposition in Hair of Abusers	Juhyun Sim
11:30am-11:40am	S98: The Specification and Evaluation of an Oral Fluid Drug Screening Device for Use in Roads Policing in Ireland	Dr. Aisling Kennedy
11:40pm-11:50pm	S99: LC-MS/MS Determination of Cannabis and Metabolites in Nails and Hair. Analysis of Real Specimens from Cannabis Users	Ana de Castro

10:30am-12:00n
Scientific Session 6B: Post Mortem Toxicology
Moderators: Dave Osselton and Adarsh Kumar

10:30am-10:40am	S100: The Postmortem Distribution of Ranolazine in a Case of Suspected Homicidal Poisoning	Laureen J. Marinetti
10:40am-10:50am	S101: Postmortem Estimation of Metabolizer Type: Combining Quantification and Characterization of CYP Enzymes by Proteomics	Brigitte Desharnais
10:50am-11:00am	S102: Toxicology Laboratory Findings for the 2004 Census of Medical Examiner and Coroner Offices	Jeri D. Roper-Miller
11:00am-11:10am	S103: The Estonian Fentanils Epidemic Revisited: 3-Methylfentanyl Makes Way for Fentanyl and Furanylfentanyl	Ilkka Ojanperä
11:10am-11:20am	S104: Analysis and Postmortem Consideration of Gabapentin and Pregabalin in North Carolina	Justin Brower
11:20am-11:30am	S105: Combined Drug Intoxication of Amphetamines, Cannabis and MDMB-CHMICA as a Possible Trigger in Falling from a High-Rise	Franziska Gaunitz
11:30am-11:40am	S106: Postmortem Distribution of 4-MEC, MDPV, Methoxetamine and α -PVP in Two Cases of Poisoning	Sabrina Lehmann
11:40pm-11:50pm	S107: Rectal Administration of Cocaine resulting in Death: An Exceptional Case and Literature Review	Frederic Aknouche
11:50am-12:00n	S108: Phosphine Analysis in Postmortem Specimens: Five Cases of Fatal Aluminium Phosphide Poisoning in Children after Inhalation of Phosphine	Hui Yan

12:00pm-1:30pm Lunch with Exhibitors Grand Ballroom

12:00n-1:30pm
Poster Session A: Analytical Toxicology
Moderator: Jamie Foss

P77: Forensic drugs of abuse analysis using an automated, simultaneous in-tip extraction technique	Kevin W.P. Miller
P78: A Modified QuEChERS Approach for the Extraction of Common Prescription and Illicit Drugs from Liver Prior to LC/MS-MS Analysis	Tina Fanning
P79: Quantitation of THC and Metabolites in Whole Blood By LC-MS/MS for Per Se Law Testing	Diana Tran
P80: Enantioselective Analysis of Citalopram and Demethylcitalopram in Human Whole Blood by Chiral LC-MS/MS and Application in Forensic Cases	Sys Stybe Johansen

P81: Simultaneous Quantitation of Criminal Drugs of Abuse in Whole Blood by QuEChERS and LC-MS/MS	Rui Shen Ong
P82: Evaluation of Three Different Extraction Procedures for the Forensic Analysis of Drug-Facilitated Crimes by Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)	Fabricio Souza Pelicao
P83: Method Validation of 39 Pain Management Drugs in Six Common Toxicological Matrices using DPX-WAXS Tips and LC-MS/MS	Dani C. Mata
P84: Application of a Fully Automated Biochip Analyzer to the Simultaneous Detection of 20 Drugs of Abuse and Creatinine in Less than 20 Minutes from One Urine Sample	J. Dicks
P85: Validation of an Automated Multi Component Method Using Protein Precipitation LC-MS-MS Analysis of Whole Blood Samples	Tina Slots
P86: LC-MS/MS Method Development and Analysis of Stimulants, Opiates, Synthetic Opiates, PCP, and Benzodiazepines in Wastewater. Preponderance of These Drugs During Football Games	Waseem Gul
P87: Validation of a Screening Method in Visceral Blood and Bile by GC-MS As Alternative Matrices To Peripheral Blood	Karina G. Casares
P88: Reliable Determination of Cyanide, Thiocyanate, and Azide in Whole Blood by GC-MS and its Application in NAGINATA-GC-MS Screening	Keiko Kudo
P89: Quantitative Determination of Ethyl Glucuronide and Ethyl Sulfate in Postmortem and Antemortem Whole Blood Using Phospholipid Removal 96-wells Plates and UHPLC-MS/MS	Lena Kristoffersen
P90: Highly Sensitive Determination of Alendronate in Human Plasma and Dialysate Using HPLC-MS/MS	Miho Yamada
P91: Determination of Valproate in Human Samples by Modified QuEChERS Extraction and GC-MS/MS	Shun Mizuno
P92: Ion Mobility Derived Collision Cross Section as an Additional Measure to Support the Rapid Analysis of Abuse Drugs and Toxic Compounds Using Electrospray Ion Mobility Time-of-Flight Mass Spectrometry	Ru Lian
P93: Can Ultrasound be Applied in the Derivatization of Drugs of Abuse? A Pilot Study with Sialylation of Amphetamine, MDA and MDMA Using GC-EI-MS and Univariate Experimental Optimization	Eduardo Geraldo de Campos
P94: A New Perspective for an Old Method to Quantify Drugs in Different Matrices by LC-MS/MS	Julie Laquerre
P95: Evaluation of the Ark™ Pregabalin Urine Assay; Application in Postmortem Toxicology Investigations	Linda Glowacki
P96: Rapid Detection of Illegal Drugs in Urine by MEPS™-DART-TOF-MS Analysis	Masaru Kondo
P97: Sensitive Liquid Chromatography/Tandem Mass Spectrometry Method for the Simultaneous Determination of Six Beta Blockers	Keiko Tonooka
P98: Extraction and Quantification of Methadone and its Metabolites in Skeletal Tissue of Chronical Dosed Rats	Eva Cuypers
P99: Automated Desorption, SPE Extraction, and LC-MS/MS Analysis of Dried Blood Spots	Fredrick Foster
P100: Headspace Solid-Phase Microextraction and Gas Chromatography-Mass Spectrometry for Determination of Cannabinoids in Human Breast Milk	Gabriela de Oliveira Silveira
P101: Qualitative Analysis for Multiple Drug Classes and Metabolites in Serum/Plasma by LC-MS/MS	Lacy L. Taylor

P102: Evaluation of the Stability of Dried Blood Spots as Quality Controls for Drugs of Abuse	Marc Ausburger
P103: Simultaneous Quantitative and Qualitative Determination of 80+ Forensic Toxicology Drug Candidates and Metabolites using Triggered Dynamic Multi Reaction Monitoring with LC-Tandem MS	Peter J.W. Stone
P104: Quantitative Analysis of Gastric Content: A Standardized Preparation Method Using Protein Precipitation and LC-MS/MS Analysis	Marc-André Morel
P105: Quantification of High Therapeutic Concentration Compounds: A Piece of a Novel High Throughput Protein Precipitation Extraction and LC-MS/MS Analysis Workflow	Marc-André Morel
P106: Strategies for Multiple-Target Screening using LC-MS/MS with Merged Spectrum Database for Forensic Toxicology	Toshikazu Minohata
P107: Analysis of Fifteen Rodenticides in Blood and Urine Samples by On-Line Solid Phase Extraction and Liquid Chromatography- Mass Spectrometer Triple Quad	Kejian Huang
P108: Discrimination of Human Urine from Animal Urine Using ¹ H-NMR	SungIll Suh
P109: Development of Conditions of Detection of Alkaloids of the Buxus Sempervirens by TLC	D.A. Zulfikariyeva
P110: Development of a Quantitative LC-MS/MS Assay for Codeine, Morphine, 6-Acetylmorphine, Hydrocodone, Hydromorphone, Oxycodone, and Oxymorphone in Neat Oral Fluid	Nichole Bynum
P111: Advanced Workflow for Quantification of Glucuronide Metabolites in Biological Matrices by LC-MS; Know More in Less Time	Yulia Ivanova
P112: The Analysis of Common Antiepileptic Drugs in Human Urine by LC-MS/MS	Landon Wiest
P113: The Analysis of Common Drugs of Abuse in Human Urine by LC-MS/MS	Sue Steinike
P114: The Analysis of Emerging Drugs of Abuse: Updating an Existing Method with New Compounds	Sharon Lupo
P115: A Novel Solution for EtG/EtS Analysis in Human Urine by LC-MS/MS	Shun-Hsin Liang

12:00n-1:30pm
Poster Session B: Clinical Toxicology
Moderator: Jamie Foss

P116: Comparison of the Concentrations of Clonazepam (CLO)/7-Aminoclonazepam (7-ACLO) in the Blood of Drugs-Driving (OUI) and Drug Facilitated Crimes (DFC) Cases	Albert A.Elian
P117: Urine Drug Screening Positivity Rates in Patients from Chemical- Dependence Programs in Western New York State	Fazlollah Loghmanee
P119: Definitive (UPLC-MS/MS) Drug Screening in Urine Confirmed by UPLC-MS ^E /QTOF Analysis in Forensic Casework	Thomas Rosano
P120: UHPLC-QTOF-MS for Dynamic Targeted Screening and Quantification of Synthetic Cannabinoids in Urine	Per Ole M. Gundersen
P121 Application of a New Random Access Fully Automated Biochip Analyzer, Evidence Evolution, to the Simultaneous High Throughput Screening of Twenty Drugs of Abuse in Urine	L. Keery
P122: High-Throughput Determination of Carbapenem Drugs in Human Plasma by HILIC-MS/MS	Xiao-Pen Lee
P123: Validation of i-STAT®1 for the Quantification of Electrolytes and Glucose in Postmortem Vitreous Humor	Sue Pearring

P124: Elevated Blood Lead Levels in Children 2009-2016	F Leland McClure
P125: Driving Under Influence: On-site Screening of Eight Drugs of Abuse in Saliva using LD TD-MS/MS and a Simple Generic Extraction Procedure	Serge Auger
P126: New Analytical Tool for Urine Sample Screening and Confirmation Analysis: Combined LD TD-MS/MS and LC-MS/MS Ion Source	Jean Lacoursière
P127: A Validated Analytical Method for Synthetic Cannabinoids and Metabolites in Urine Using Liquid Chromatography Tandem Mass Spectrometry	Maggie Tiong Su Su
P128: Validation of Generic Sample Extraction Workflow for Analysis of 62 Drugs in Urine by LD TD-MS/MS (screening) and LC-MS/MS (confirmation)	Serge Auger
P129: Treatment of Alcohol Dependence in France: Analytical and Toxicological Aspects	Laurence Labat
P130: Evaluation of KIMS Immunoassays on a Cobas c 501 Analyzer for Drugs of Abuse and Ethyl Glucuronide in Urine for Abstinence Control and for Drugs of Abuse in Serum Using Typical Clinical Cut-offs	Merja A. Neukamm
P131: Cannabinoids Detection in Bronchoalveolar Lavages of Heavy Cannabis Smokers with Lung Disease	Francesco Paolo Busardo
P132: Injuries in People Convicted for Driving Under the Influence of Alcohol: The Roles of Non-Illicit Psychoactive Drugs	Raffaele Giorgetti
P134: LC-MS/MS Method Development and Validation for the Quantitation of AB-PINACA Pentanoic Acid Metabolite and UR-144 Pentanoic Acid Metabolite in Urine	Seema Parveen
P135: Detection of Noscapine and Papaverine as Heroin Biomarkers in Pain Management Compliance Testing	Carrol Nanco
P136: Carboxyhemoglobin levels in Transit Police officers of Arequipa-Perú	Carbajal Loayza Juan Marco
P137: Toxicological Findings in a Case of Oral Exposure to the Herbicide Fluroxypyr 1-Methylheptyl Ester	M.J. Vincenten-van Maanen
P138: Neurometabolic Therapy of Toxic Encephalopathy in Patients with Acute Alcohol Poisoning	Rustam Akalaev
P139: Anhydrous Caffeine: Overdose in Tablespoons	Michael Smith
P140: Ultra-High Performance Liquid Chromatography Tandem Mass Spectrometric Method for the Determination of Fluoxetine and Norfluoxetine in Dried Blood Spots	Rafael Linden
P142: Insistent Problem of Turkey: Mass Methanol Poisoning in Cukurova Region	Nebile Daglioglu
P143: Driving under the Influence of Drugs in North Moravia in the Czech	Vladimira Gebauerova
P144: Detection of Illicit Drugs in Oral Fluid from Truck Drivers in the State of Sao Paulo, Brazil	Vilma Leyton
P145: Determination of Glufosinate in Whole Blood Samples from Emergency Room Patients using LC-MS/MS	Yu-JIn Kang
P146: Development of a Rapid Multi-Target Screening Analysis Suitable to Emergency Toxicology in Urine by GC-MS and LC-MS/MS	Junhui Lee
P147: LC-MS/MS Analysis of Large Drug Panels in Urine Using Three Sample Preparation Techniques	Stephanie J. Marin

1:30pm-3:00pm
Scientific Session 7A: Analytical Toxicology

Moderators: Marc Lebeau and Ann Marie Gordon

1:30pm-1:40pm	S109: Characterization of Compounds in Traditional Chinese Medicine	Waldon Chen
1:40pm-1:50pm	S110: Development of a Gas Chromatography-Mass Spectrometry Method for Mexedrone in Urine	Dr Lorna A. Nisbet
1:50pm-2:00pm	S111: Screening and Confirmation of Fentanyl Analogues by High Resolution Mass Spectrometry using an Agilent 6545 QTOF Mass Spectrometer	Jason S. Hudson
2:00pm-2:10pm	S112: A Sensitive LC-MS/MS Assay for Quantification of Methadone and Its Metabolites in Dried Blood Spots	Cristina Sempio
2:10pm-2:20pm	S113: Development and Validation of an ICP-MS Method to Determine Levels of Arsenic, Mercury and Lead in Whole Blood and Urine Samples	Sarina.H.Yang
2:20pm-2:30pm	S114: Fast and Simple Screening of 40 Drugs in Diluted Blood and Urine Samples by UHPLC-MS/MS: Application in Emergency Toxicology	Sarah Carobini
2:30pm-2:40pm	S115: Investigation of Potential Hydrolysis-Related Interferences in Amphetamine Positive Samples	Danielle Mackowsky
2:40pm-2:50pm	S116: Evaluation of a New Extraction Procedure for the Preparation of Cannabis-Based Olive Oil for Therapeutic Use: Determination of Δ^9 -Tetrahydrocannabinol and Cannabidiol Concentrations	Morini Luca
2:50pm-3:00pm	S117: Differentiation of Regioisomeric Analogues of Amphetamine and Methamphetamine by Ultra-High Performance Supercritical Fluid Chromatography	Hiroki Segawa

1:30pm-3:00pm

Scientific Session 7B: New Psychoactive Substances

Moderators: Thomas Kraemer and Lars Ambach

1:30pm-1:40pm	S118: New Psychoactive Substances Produce Reactive Metabolites – A Possible Mechanism of Toxicity?	Ariane Wohlfarth
1:40pm-1:50pm	S119: The ETOA-project: Evaluation of Toxicity of New Drugs of Abuse Based on Analysis	Elisabeth Leere Øiestad
1:50pm-2:00pm	S120: Seven Cases of Severe Intoxication Associated with Analytically Confirmed Use of the Novel Psychoactive Substances 25I-NBOMe	Herbert Oberacher
2:00pm-2:10pm	S121: U-47700 Threat to Personal and Public Health	Donata Favretto
2:10pm-2:20pm	S122: Novel Scheduling of U-47700 in the State of Ohio	Erin Reed
2:20pm-2:30pm	S123: Simple and Rapid Screening Procedure for 66 Synthetic Cannabinoids by Liquid Chromatography-Tandem Mass Spectrometry and its Application for Forensic Toxicology Purposes	Piotr Adamowicz
2:30pm-2:40pm	S124: Screening and Quantitative Analyses of New Psychoactive Substances in 11 Emergency/Fatal Cases Using UHPLC-Q-TOF MS Coupled with Ion Mobility Separation	Ruri Kikura-Hanajiri
2:40pm-2:50pm	S125: The Elephant (Tranquilizer) in the Room: Carfentanil	Kevin G. Shanks
2:50pm-3:00pm	S126: A Study of the Illicit Drugs Situation in Hong Kong by Examination of Local Drug Seizures	Cheng Wing-chi

3:30pm-5:00pm

Scientific Session 8A: New Psychoactive Substances

Moderators: Karen Scott and Sabra Botch-Jones

3:30pm-3:40pm	S127: Methodical Approach for the Identification of Novel Psychoactive Substances (NPS)	Rachel C. Beck
3:40pm-3:50pm	S128: HighResNPS.com – An Internet Database for Liquid Chromatography - High Resolution Mass Spectrometry Screening for New Psychoactive Substances	Petur Weihe Dalsgaard
3:50pm-4:00pm	S129: Deaths Caused by New Psychoactive Substances in the Expert's Opinions for Medico-Legal Purposes	Małgorzata Kłys
4:00pm-4:10pm	S130: Untargeted Determination of Low-Dosed NPS in Blood Plasma by LC-High Resolution Mass Spectrometry	Achim T. Caspar
4:10pm-4:20pm	S131: <i>In Vivo</i> and <i>In Vitro</i> Metabolism and Detectability Studies on the New Psychoactive Substance 4-EA-NBOMe by means of GC-MS, LC-MSn, and LC-HR-MS/MS	Achim T. Caspar
4:20pm-4:30pm	S132: Two Hospitalizations and One Death after Exposure to Ortho-Fluorofentanyl	Arne Helland
4:30pm-4:40pm	S133: Characterization of Eight Post-mortem Cases Positive for U-47700	Pirkko Kriikku
4:40pm-4:50pm	S134: Metabolism and Biliary Excretion of the Synthetic Cannabinoid 5F-PY-PICA by Human and Rat Hepatocytes, and Sandwich-Cultured Rat Hepatocytes	Marie Mardal
4:50pm-5:00pm	S135: Does "Bath Salts" Consumption Increase the Risk of Danger? Reporting Four Cases with Forensic Implications in Spain	María Antonia Martínez

3:30pm-5:00pm

Scientific Session 8B: Clinical Toxicology

Moderators: Hans Maurer and Manoj Tyagi

3:30pm-3:40pm	S136: Whole Blood and Urine Cannabinoid Levels after Smoking High-CBD Marijuana	Marianne Hädener
3:40pm-3:50pm	S137: The Application of Central Composite Design for Liquid-Liquid Extraction Followed by LC-MS/MS Analysis for the Simultaneous Quantification of 14 Anti-Hypertensive Drugs and Metabolites in Human Urine	Rafael Venson
3:50pm-4:00pm	S138: Exploitation of Cancer Patient with Mystical Herbal Preparations: A Case Report	Selda Mercan
4:00pm-4:10pm	S139: Toxicological and Clinical Findings from Presentations Involving Drug Intoxication at a UK Emergency Department	Claire Parks
4:10pm-4:20pm	S140: Lead Toxicity after Consumption of Weight Loss Supplements	Penny D Colbourne
4:20pm-4:30pm	S141: Urinary 11-Nor-9-Carboxy-9-Tetrahydrocannabinol (THC-COOH) Concentrations in US Military Specimens	Marisol S. Castaneto

4:30pm-4:40pm	S142: A Comparison of ELISA and Rapid LC-MS/MS Drug Screening Techniques for Urine Specimens	Kristin Wegner
4:40pm-4:50pm	S143: Chiral Separation and Quantification of R/S-Amphetamine in Urine by Ultra-High Performance Supercritical Fluid Chromatography Tandem Mass Spectrometry	Solfrid Hegstad
4:50pm-5:00pm	S144: Drug and Substance Abuse in Refractory Epilepsy	Raafat Abdeldayem

Thursday, September 14

8:00am-10:00am

Scientific Session 9A: DUID (Drugs and Driving Committee)

Moderators: Fiona Couper and Sarah Kerrigan

8:00am-8:10am	S145: Preliminary Study for Driving Under the Influence of Some Benzodiazepines In Istanbul	Zeynep Turkmen
8:10am-8:20am	S146: Finding a Needle in a Haystack: Detection of Designer Opioids and Benzodiazepines in DUID Casework	Ayako Chan-Hosokawa
8:20am-8:30am	S147: The Impact of the Illicit Fentanyl and Heroin Crisis on DUID Investigation Cases	Ayako Chan-Hosokawa
8:30am-8:40am	S148: Changing Drug Prevalence in Drivers Killed in Motor Vehicle Accidents	Dimitri Gerostamoulos
8:40am-8:50am	S149: Cannabinol and Cannabidiol Prevalence in Driver and Post-Mortem Populations in 2016	Vanessa Meneses
8:50am-9:00am	S150: The Influences of Drug Abuse on Driving Ability—A Pilot Study of Simulated Driving	Yan Shi
9:00am-9:10am	S151: Whole Blood THC Concentration Drop in One Hour Period Based on 27 Real Cases Analyses	Wojciech Lechowicz
9:10am-9:20am	S152: Low-Doses of Alcohol In Light Drinkers Who Drive A Simulated Motorcycle	Raffaele Giorgetti
9:20am-9:30am	S153: Recommendations for Toxicological Investigation of Drug-Impaired Driving and Motor Vehicle Fatalities – 2017 Update	Barry Logan
9:30am-9:40am	S154: An LC-MS/MS Method for the Analysis of Carfentanil, 3-Methylfentanyl, Furanyl Fentanyl, Acetyl Fentanyl, Fentanyl, and Norfentanyl in Postmortem and Impaired-Driving Cases	Szabolcs Sofalvi
9:40am-9:50am	S155: Prevalence of New Psychoactive Substances in Belgian Drivers	Vincent Di Fazio
9:50am-10:00am	S156: Driving Under the Influence of.....You Must be Kidding!	Simon Elliott

8:00am-10:00am

Scientific Session 9B: Analytical Toxicology

Moderators: Christophe Stove and Sarah Wille

8:00am-8:10am	S157: Targeted Analysis of Sports Doping Compounds Using GC-MS/MS Technology	Amit Gujar
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8:10am-8:20am	S158: Application of Q-TOF-based Metabonomics Techniques to Analyze the Changes on Rats' Plasma Metabolic Profile Following Death Due to Acute Intoxication of Phorate	Zhiwen Wei
8:20am-8:30am	S159: Evaluation of Dried Blood Spot Sampling and UHPLC-HRMS for Large-Scale Screening of Drugs and Pharmaceuticals	Timothee Joye
8:30am-8:40am	S160: General Unknown Screening – Peak Extraction and Hit Optimization Using a Design of Experiment Approach	Marco Elmiger
8:40am-8:50am	S161: Ultra-Rapid Targeted Screening and Semi-Quantitation of 327 Basic and Neutral Drugs and Poisons in Post-mortem Whole Blood by Scheduled MRM LC-MS/MS	Matthew Di Rago
8:50am-9:00am	S162: Retention Time and Ion Mobility Collision Cross Section Prediction with Artificial Neural Networks for UHPLC-HRMS and UHPLC-IMS-HRMS Drug Screening	Christian Brinch Mollerup
9:00am-9:10am	S163: Dried Blood Spots (DBS) Increases the Stability of Synthetic Cathinones	Kelly F. da Cunha
9:10am-9:20am	S164: A Simple Online Extraction LC/LC Atmospheric Pressure Ionization MS/MS Assay for the Analysis of 11 Cannabinoids and Metabolites in Human Plasma and Urine	Cristina Sempio
9:20am-9:30am	S165: The Usual Suspects: Quantifying Eight Common Drugs in Miami-Dade by LC-MS/MS	Erin E. Walsh
9:30am-9:40am	S166: Liquid Chromatography Ion Mobility Quadrupole Time of Flight Mass Spectrometry (LC-QTOF-IM-MS) as an Alternative to Immunoassay and Gas Chromatography Mass Spectrometry (GC-MS) for Urine Drug Screening	Hema Ketha
9:40am-9:50am	S167: Ionic Liquid-Based Dispersive Liquid-Liquid Microextraction Combined with LC-MS/MS Analysis for the Quantification of Benzodiazepines in Whole Blood Forensic Cases	Eva Cuypers
9:50am-10:00am	S168: Validation of a Rapid Quantitative LCMSMS Method for Opioids, Cocaine, and Cocaine Metabolites in Biological Matrices	Rebecca Wagner

10:00am-10:30am Refreshment Break Grand Ballroom

10:30am-12:00n
Scientific Session 10A: DUID
Moderators: Luke Rodda and Simon Elliott

10:30am-10:40am	S169: Marijuana and Driving in Alabama: A 10 Year Retrospective Study	Kristin Tidwell
10:40am-10:50am	S170: Can Serum EtG Help the Interpretation of BAC in Road Traffic Accidents in Case of Delayed Blood Collection?	Rossella Gottardo
10:50am-11:00am	S171: Furanyl Fentanyl, Butyryl Fentanyl, and U-47700 in Blood and Urine of Drivers Arrested for Driving Under the Influence of Drugs	Rebecca L. Hartman
11:00am-11:10am	S172: Alcohol in Combination with Other Drugs Among Fatally Injured Victims in Sao Paulo, Brazil	Gabriel Andreuccetti

11:10am-11:20am	S173: Characteristics of Alcohol-Impaired Drivers in the City of Houston (January 2014 - February 2017): Did hosting Super Bowl LI cause a Spike in BAC?	Melissa Lloyd
11:20am-11:30am	S174: A "Suspected" Mobbing Case with Intentional Drugging: Doxylamine	Merve Kuloglu
11:30am-11:40am	S175: High Variation in BAC Back-Extrapolation Even During Controlled Dosing	Christoffer Kronstrand
11:40pm-11:50pm	S176: Toxicology Findings in 1000 Alleged Drug-Facilitated Sexual Assault Cases Over a Two-Year Period (2105-106) in the United States	Taís Regina Fiorentin
11:50am-12:00n	S177: Detection of Carfentanil in Driving Under the Influence Cases in Palm Beach County, FL, USA	Nicholas Tiscione

10:30am-12:00n

**Scientific Session 10B: Post Mortem Toxicology
Moderators: Ruth Winecker and Dimitri Gerostamoulos**

10:30am-10:40am	S178: A Deaths Related to the Synthetic Opioid U-47700: Blood/Liver Concentrations Distribution	Sebastian Rojek
10:40am-10:50am	S179: Postmortem Beta-Hydroxybutyrate and Ketoacidosis in Forensic Toxicology Casework	Anna Jönsson
10:50am-11:00am	S180: Comparative Study of Postmortem Concentrations of Antidepressants in Different Matrixes	Aase Marit Leere Oeiestad
11:00am-11:10am	S181: Interpretation of Percent Carboxy-Heme from Nonstandard Postmortem Specimens Employing Carbon Monoxide-Iron Ratio	Sara Gagen
11:10am-11:20am	S182: Postmortem Redistribution of Delta-9-Tetrahydrocannabinol (THC) Demonstrated by an Investigation into Blood THC Concentration Discrepancies between Ante-mortem and Post-mortem Specimens	Mark Chu
11:20am-11:30am	S183: Determination of Fentanyl, Norfentanyl and New Fentanyl Derivatives in Plasma by GC Triple Quadrupole with Application in Clinical Toxicology Analysis	Rafael Lanaro
11:30am-11:40am	S184: Changes and Trends in the Novel Illicit Opioids use in 2016 and 2017 from a Large Postmortem Population in 2016	Jennifer L. Turri
11:40pm-11:50pm	S185: Distribution and Stability of Acetyl fentanyl and Acetyl norfentanyl in a Heroin Related Death	Jessica L. Knittel
11:50am-12:00n	S186: Development of a Screening Method for Fentanyl Analogues Using UPLC-QTOF-MS with Data Independent Acquisition (DIA)	Carolina Noble

12:00pm-1:30pm Lunch with Exhibitors Grand Ballroom

12:00n-1:30pm

**Poster Session A: Alternative Matrices and General Toxicology
Moderator: Lindsay Glicksberg**

P148: Urine and Hair Drug Testing by ELISA/ LC-MS/MS Comprehensive Method Reveals Multiple Drug Chronic Exposure of an Infant	Ernest D Lykissa PhD
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P149: Lamotrigine Poisoning as Evidence of Munchausen Syndrome by Proxy: A Paediatric Case Report Documented Using Hair Analysis	Hoizey Guillaume
P150: Evaluation of a New Fully Automated Rapid Screening System for the Simultaneous Detection of Drugs of Abuse from a Single Oral Fluid Sample Collected with the NeoSal Device	J. Dicks
P151: Evidence by Hair Analysis of 3-MMC Consumption by Two Polydrug Abusers	Véronique Dumestre-Toulet
P152: Is 5-hydroxytryptophol (5-HTOL) Glucuronide in Hair a Potential Alcohol Misuse Indicator? A Comparison with Ethyl Glucuronide	Vincent Varlet
P153: Oral fluid vs. Urine Analysis to Monitor Synthetic Cannabinoids and Classic Drugs Recent Exposure	Marta Concheiro
P154: Method Development and Validation for the Analysis of Cocaine, Benzoyllecgonine, Amphetamines, Opiates, Opioids, 6AM, THC, Methadone and PCP in Oral Fluid Samples using Liquid Chromatography Tandem Mass Spectrometry	Sami Jamokha
P155: Development and Validation of a New SEFRIA™ Immunoassay for the Detection of Oxycodone in Oral Fluid	Guohong Wang
P156: Quantitative Analysis of Cocaine, its Metabolites and Adulterants in Oral Fluid	Shahana Wahab Huq
P157: Getting Hair Done: Analyzing Drugs of Abuse in a Complex Matrix	Laura Snow
P158: Development of an Alternative Method for the Determination of 11-Nor-9-Carboxy-Tetrahydrocannabinol in Hair Using LC-MS/MS and its Application to Drug Abusers Hair	Juhyun Sim
P159: JWH Synthetic Cannabinoid Isomers: Characterization and Localization Using MALDI-MSn by Hair Imaging	Angéline Kernalléguen
P160: The Brazilian Regulation to Obtain a Professional/Commercial Driver's License Requires Hair Drug Testing: One Year of Results from an Expensive and Doubtful Effectiveness of this Regulation	Vilma Leyton
P161: Positivity Rates of Drugs in Patients Treated with Buprenorphine Combinations Used to Treat Opioid Dependence: A Comparison of Oral Fluid and Urine Using Paired Collections and LC-MS/MS	Robert West
P162: Selected Opioid Levels in Hair Samples	Neil Stowe
P163: Surface Enhanced Raman Spectroscopy as a Method for Toxicological Drug Screening of Cannabinoids in Saliva	Bruce McCord
P164: Drugs of Abuse Extraction from Oral Fluid using Supported Liquid Extraction (SLE) Following Collection with NeoSal, Prior to GC/MS Analysis	Lee Williams
P165: New Product in Turkey Market: Hemp Extract Cold Beverages	Serap Annette Akgur
P166: Identification of "Kratom" (Mitragnyna speciosa) Alkaloids in Commercially Available Products	Julia Grzymkowski
P168: Drug Analysis Quality Assurance Program for Russian Forensic Toxicology Laboratories. One Step Forward to Assure and Improve Quality	Sergey Savchuk
P169: Evaluation of the NeoSal™ Oral Fluid Collection Device: A Side-by-Side Study in Drugs of Abuse Populations	Donna Coy
P170: Detectability of Hydromorphone and Codeine in Oral Fluid Samples from Patients in Substitution Therapy	Stefan Lierheimer
P171: Evaluation of Voltage, Resistance, and Glycol Ratio on Glycol and Nicotine Size Distribution Within an Aerosol Produced by an Electronic Cigarette	Jesse Patterson

P172: Establishing a Baseline for Drug Use in California Nightclubs: A Retrospective Analysis of 2015 and 2016	Cynthia Coulter
P173: Hair Analysis as a Forensic Tool in the Detection of Drug Use in Juvenile Detainees in Thailand: Two Year Experience	Ampika Leelapojanaporn
P174: Ethanol in E-liquids: Concentration in 35 Formulations by Headspace Gas Chromatography with Flame Ionization Detector (HS-GC-FID) and the Impact on the Temperature of the E-cigarette Coil	Jasmynne M. Royals
P175: Analysis of Mixed Fruit Chews Medibles Containing THC	Justin Poklis
P176: Stability of Laboratory Prepared Quality Control Materials and the Analysis of Commercially Available Brownies	Carl E. Wolf
P177: The Use of Fentanyl with Illicit Drugs has Increased in Ontario, Canada	Adam S. Ptolemy
P178: Optimized Digestion and Extraction of Endogenous Gamma Hydroxybutyrate (GHB) in Human Hair	Michael Truver
P179: Analysis of Clonazepam in Hair: Segmental Analysis in Drug Facilitated Sexual Assault Cases	Chen Hang
P180: Correlation between Lead and Iron Blood Level and Some Biochemical Parameters in Gas Stations Workers	Hatem Abdul Moniem Ahmed

12:00n-1:30pm

Poster Session B: Post Mortem and General Toxicology

Moderator: Lindsay Glicksberg

P181: Drugs of Abuse and the Manner of Death in an Urban Area of Brazil	Bruno Spinosa De Martinis
P182: Investigation in Stability of Eight Synthetic Piperazines in Human Whole Blood Under Various Storage Conditions Over Time	Timothy Lau
P183: Evaluation of Toxicological Risk Due To The Presence Of Bisphenol A in Thermal Papers	Giovana Piva Peteffi
P185: A Routine Toxicology Case Under Scrutiny	Sarah Russell
P186: Quantification of Haloperidol and Its Metabolites in Postmortem Blood and Urine by UHPLC-MS/MS	Chu-An Yang
P187: A Death Involving Mitragynine (Kratom)	Bheemraj Ramoo
P188: Death Following Accidental Injection of Atracurium: Results of Toxicological Investigations	Patrick Mura
P189: Ethanol and Ethyl Glucuronide Concentrations in Post Mortem Femoral Blood (FB), Urine and Vitreous Humor (VH)	Thomas Keller
P190: Estimating and Evaluating Metabolic Capacity of CYP3A4 in an Intoxication Case Using a Proteomics and Mechanistic Pharmacokinetic Simulation Approach	Jakob Ross Jornil
P191: Utility of Forensic Radiology and Determination of Intracardiac Gases Composition for Diving Fatalities Diagnosis-	Vincent Varlet
P192: Detection of Cannabinoids in Forensic Serum Samples by Immunoassay: HEIA™ Versus GC-MS	Thomas Keller
P193: Detection of Opiates, Cocaine and its Metabolites in Forensic Serum Samples by Immunoassay: HEIA versus GC-MS	Thomas Keller

P194: Implementation of an Automated Sample Integrity Check for the Immunological Screening of Forensic Serum Specimens	Thomas Keller
P195: The Pigeon Poppy Seed Defence – Analysis of Opiates as Markers of Doping Use in Racing Pigeons	Maarten Degreef
P196: Development and Validation of a UHPLC-HRMS/MS Quantification Method for Hypoglycin A in Horse Serum in Cases of Atypical Myopathy in Horses	Wiebke Rudolph
P197: Postmortem Distribution of N-Ethylpentylone	Andra Poston
P198: High Blood Concentrations: Cause of Death or Caused by Death?	Marie-Pierre Taillon
P199: A Case of Devious Poisoning with Sodiumazide	Roelof Oosting
P200: Toxicological Findings in Two Victims of Fatal Poisoning with Fentanyl	Miranda Verschraagen
P201: A Lethal Combination of Drugs During a Prolonged Chemsex Session: Increased Risk with GHB, Methamphetamine, Alprazolam, Anabolic Steroids and Antiretroviral Drugs	Pinorini, Maria
P202: Retrospective Analysis of Fentanyl Concentrations in 80 Post Mortem Overdoses	David M. Cook
P203: Postmortem Analysis of Duloxetine (Cymbalta) in North Carolina	Amy Irizarry
P204: “Tampering to Death”: A Fatal Codeine Intoxication Due to a Home-Made Purification of a Medical Formulation	Jennifer Paola Pascali
P205: Vitreous Humor Chemistry Analyses: An Important Tool in Postmortem Case Evaluations	Patricia Small
P206: Study on the Postmortem Distribution of Lidocaine and its Metabolite MEGX and GX in Anesthesia Accident Death Dogs	Zhongshan Yu
P207: Study on the Decomposition Kinetics of Carbofuran in Preserved Blood and Liver of Poisoning Dogs	Juan Jia
P208: Comparison of Serum and Whole Blood Concentrations in Acute Poisoning from Prescribed Drugs	T. Saito
P209: Mass Spectrometric Analysis of Drugs Consumed in Drug Consumption Rooms in the City of Frankfurt	Jürgen Kempf
P210: Development of a Method to Distinguish Amphetamine and Methamphetamine from the other Amphetamine-like Amines by LC-MS	Kei Ieuji
P211: Multidisciplinary Strategy for NPS Detection: Characterization of 5-MAPB, bk-2C-B and AMT in Seized Materials and their Activities on hCAs	Fabio Vaiano
P212: Fatal Strychnine Poisoning	Christina Fields-Zinna
P213: Development of an In-Vitro Drug Delivery Efficiency Test for a Pulmonary Toxicokinetic Study in Pigs	Nadine Schaefer
P214: Postmortem Endogenous Ethanol Production Detected by Court-Ordered Transdermal Alcohol Monitoring	Christopher Liverman
P215: Quantitation of Aerosolized Methamphetamine from Electronic Cigarettes by Gas Chromatography-Mass Spectrometry (GC-MS): Does Increasing the Voltage Increase the Dose?	Rose I Krakowiak
P216: Post-Mortem-Drug-Screening in Dental Hard Tissue Samples by LC-QToF MS	Laura M. Huppertz
P217: Detection of Dimethylether in a Blood Sample of a Deceased Person After Three Days Storage at Room Temperature	Andreas H Ewald

P218: Distribution of Furanyl Fentanyl in an Accidental Acute Death	Hana F.H. Martucci
P219: Postmortem Cocaine and Metabolites in Several Tissues. Eight Cases Reported and Interpretation of Findings	Ferrari Giannuzzi
P220: Determination of Biomarkers in Vitreous Humor for the Estimation of Postmortem Interval by LC-MS/MS	Ahra Go
P221: Evaluation of Tip-Washing Technology for Forensic Applications	Allison M. Veitenheimer