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SUNDAY AUGUST 27th – Pre-congress Day

09.00 – 12.30  Executive Board meeting
[D. Gerostamoulos (AU), S. Elliott (UK), M. LeBeau (USA), C. Jurado (ES), C.
Stove (BE), S. Wille (BE), J.C. Alvarez (FR), N.P. Lemos (GR)]

09.00 – 12.30  Young Scientists Symposium
[L. Rodda (US), E. Lendoiro (SP), F. Busardò (IT), B. Davies (SA), S. Eller (BR),
D. Pasin (AU), L. Wagmann (DE), S. Watanabe (JP)]

12.30 – 13.30  Lunch

13.30 – 14.30  TIAFT Regional Representatives Meeting

17.00 – 20.00  Opening Ceremony
[D. Gerostamoulos (AU), T. Trenti (IT), F.R. Busardò (IT), S. Pichini (IT)]

Opening Lectures:
F. Botrè (IT) – “From forensic toxicology to doping analysis and back: new matrices,
new markers, new methods”

I. Leone (IT) – “Roma Caput Mundi: from the sunrise to the sunset”

MONDAY AUGUST 28th

08.00 – 08.30  COMEDICAL - Scientific Workshop
Title: “TricolINC® technology and Comedical TricoCheck® Hair Quality Controls”
Speaker: Simona Pichini

08.30 – 10.30  Plenary Room Session 1: New Psychoactive Substances (NPS)
Moderators: A. Zapparoli (IT), T. Trenti (IT)

08.30 – 08.50  Main Lecture: M. Evans-Brown (UK) – “25 years of early warning, preparedness,
and response to new psychoactive substances in Europe: past, present, future”

08.50 – 10.00  Oral Presentations

10.00 – 10.30  Coffee Break

10.30 – 12.30  Plenary Room Session 2: NPS and new trends of drug use
Moderators: H. Teixeira (PT), V. Auwärter (DE)

12.30 – 13.10  SHIMADZU - Scientific Workshop
Title: “Enhancing automation & reporting confidence for LCMS (TQ/HRMS) and
innovative approaches for toxicology studies using mass spectrometry”
Speaker: Daisuke Kawakami

13.10 – 14.10  Lunch

13.40 – 14.10  AGILENT - Scientific Workshop
Title: “Combining compound information from the HighResNPS Project with the
Agilent LC/Q-TOF MassHunter Screening Tool for large-scale analysis of New
Psychoactive Substances”
Speaker: Bernhard Wüst

14.10 – 16.10
Plenary Room Session 3: DUID, alcohol biomarkers and DFSA
Moderators: C. Jurado (SP), M. LeBeau (USA)

14.10 – 14.30
Main Lecture: P. Kintz (FR) - “Forensic aspects of the “Chemsex” phenomenon”

14.30 – 16.10
Oral Presentations

16.10 – 16.50
AGILENT - Scientific Workshop
Title: "High-throughput low impact sample preparations for NPS analysis in various biological samples"
Speaker: Sara Odoardi
Title: "Mass spectrometric alternatives for steroid analysis in serum"
Speaker: Xavier De la Torre

16.50 – 18.20
Plenary Room Session 4: Free Topics
Moderators: S.A. Akgür (TR), T. Keller (AT)
Oral Presentations

08.30 – 18.30
The entire day is dedicated to studies and investigations presented by young scientists under the age of 40 years old with three plenary lectures of worldwide renowned scientists.

08.30 – 10.00

08.30 – 08.50

08.50 – 10.00
Main Lecture: M. Huestis (USA) - “Advancing the field of forensic toxicology, your reputation and career by writing successful scientific manuscripts”

08.50 – 10.00
Oral Presentations from Young Scientists

10.00 – 10.30
Coffee Break

10.30 – 11.40
Plenary Room Session 6: Young Scientists - part 2
Moderators: M. Concheiro (USA), A. Salomone (IT)

10.30 - 10.50
Main Lecture: B. Chankvetadze (GE) - “Chirality in forensic toxicology”

10.50 - 12.00
Oral Presentations from Young Scientists 2.0

12.00 – 13.00
THERMO FISHER SCIENTIFIC - Scientific Workshop
Title: “Mass spectrometric applications and advances for the analysis of NPS”
Speakers: Stefania Boccuzzi & Sandrine A.M. Mérette

13.00 – 14.00
Lunch

13.30 – 14.00
BRUKER - Scientific Workshop
Title: “NMR-based testing of suspicious substances - as easy as it gets”
Speaker: Joerg Koehler

14.00 – 14.40
SIEMENS - Scientific Workshop - “Siemens Healthineers Innovative Approach to Toxicological Screening”
Title: “Evaluation of ARK High Sensitivity Benzodiazepine II Assay”
Speaker: Luca Morini

TUESDAY AUGUST 29
Title: “New Drug Testing Approach in a High-Volume Toxicology Lab with Atellica Integrated Automation”
Speaker: Roberto Baronti

14.40 - 17.40
Plenary Room Session 7: Live Poster Session from Young Scientists
Moderators: J. Schumann (AU), J. Carlier (IT)

17.55 - 18.45
BRUKER - Scientific Workshop
Title: “Rapid identification of drug metabolites with TargetScreener4D”
Speaker: Carsten Baessmann
Title: “A fast and novel workflow for urine toxicology screening and confirmation by a single DART-LC-MS/MS platform”
Speaker: Terry Bates

08.30 – 18.30
Poster Session 2

**WEDNESDAY AUGUST 30TH**

08.00 – 08.30
ABBOTT - Scientific Workshop
Title: “Addressing drugged driving - A Colombian initiative”
Speaker: Suman Rana

08.30 – 10.00
Plenary Room Session 8: Advances in clinical and forensic toxicology
Moderators: M. Martínez (ES), L. Ferrari (AR)

08.30 – 08.50
Main Lecture: S. Wille (BE) - “Drugs and Driving - Why bother and how to tackle this worldwide problem?”

08.50 – 10.00
Oral Presentations
10.00 – 10.30
Coffee Break
10.30 – 12.20
Plenary Room Session 9: Advances in clinical and forensic toxicology and free topics
Moderators: H. Chung (KR), J.C. Alvarez (FR)

12.20 – 13.00
RANDOX - Scientific Workshop
Title: “Innovations in Toxicology and Post-Mortem Screening”
Speaker: Ricardo Addobbati

13.00 – 14.00
Lunch
13.30 – 14.00
SCIEX - Scientific Workshop
Title: “SCIEX forensics applications workshop”
Speaker: Pierre Negri

08.30 – 18.30
Poster Session 3
THURSDAY AUGUST 31

08.00 – 09.30  Plenary Room Session 10: Free topics and Doping
Moderators: R. Kronstrand (SE), A. Evans (ZA)
Oral Presentations

09.30 – 10.00  COMEDICAL - Scientific Workshop
Title: “Determination of Ethyl Glucuronide (EtG) in hair by COMpact biochemical analyzer after extraction with VMA-T Reagent”
Speaker: Fabrizio Lo Faro

10.00 – 10.30  Coffee Break

10.30 – 12.20  Plenary Room Session 11: Post-mortem toxicology
Moderators: R. Giorgetti (IT), N.P. Lemos (GR)
Oral Presentations

12.20 – 13.05  WATERS - Scientific Workshop - “Innovation in MassSpec for the Forensic Toxicology Laboratory”
Title: “Analysis of EtG in hair on Waters Xevo TQ-XS”
Speaker: Sara Vezzoli, Cristina Calvetti
Title: “High resolution MSe Toxicology Screening using the Waters Xevo G3 QTof”
Speaker: Nayas S. Mistry

08.30 – 13.00  Poster Session 4

13.05 – 13.50  Lunch

13.50 – 15.10  Plenary Room Session 12: 8IBioC - latest updates in Laboratory Medicine
Moderators: G. Cangemi (IT), G. Sancesario (IT)

15.10 – 17.00  Post congress TIAFT Business Meeting
[D. Gerostamoulos (AU), S. Elliott (UK), M. LeBeau (USA), C. Jurado (ES), C. Stove (BE), S. Wille (BE), J.C. Alvarez (FR), N.P. Lemos (GR)]
ORAL PRESENTATIONS

MONDAY, AUGUST 28th

08.50 - 10.00  S1 - New Psychoactive Substances (NPS)

01. Annagiulia Di Trana: Benzimidazole synthetic opioid etonitazepipne: the first three related fatalities
02. Marilyn Huestis: Mitragynine and 7-hydroxy-mitragynine plasma pharmacokinetics after controlled oral kratom leaf administration to healthy human subjects
03. Gerd Jakobsson: Instability of 3-CMC in blood precludes quantification unless properly handled
04. Tanja Gampfer: In vitro and in vivo metabolism studies of the two hallucinogens 4-AcO-DET and 1cP-LSD using human liver preparations, zebrafish larvae, and LC-HRMS/MS
05. Cuimei Liu: Infrared spectroscopy combined with machine learning for the fast non-targeted screening of new psychoactive substances
06. Ruri Kikura-Hanajiri: LC-QTOF-MS analysis of 23 natural and semi-synthetic cannabinoids and metabolic properties of cannabinoid acetyl derivatives in human liver microsomes
07. Diletta Berardinelli: μ-, and δ-Opioid receptor activity assessment of the most recent 2-benzylbenzimidazole nitazene analogs using a [35S]-GTPγS assay. Etonitazepipne, ethyleneoxynitazene, 5-methyl etodesnitazene

10.30 - 12.30  S2 - NPS and new trends of drug use

08. Eduardo de Campos: Identification of ADB-5/Br-BINACA in plant-material seized in the United States and full chemical characterization using GC-MS, LC-QTOF-MS, NMR, and ATR-FTIR
09. Marie Deventer: SCRAs with a “Brand” new look: In vitro cannabinoid activity profiling of generic ban-evading brominated synthetic cannabinoid receptor agonists and their analogs
10. Lea Wagmann: Cytotoxicity and toxicokinetics of the new synthetic opioids 2-methyl-AP-237 and AP-238
11. Sebastian Rojek: Analytical and interpretative problems due to the presence of chloromethcathinone isomers in biological materials from postmortem cases
12. Florian Hakim: Use of alternative matrices and UPC2-SM to document an intoxication case in a chemsex practitioner
13. Jeremy Cartier, Sara Malaca: Epimers (9S)- and (9R)-hexahydrocannabinol (HHC): A different metabolic fate in humans?
14. Alaina Holt: Monitoring emerging tetrahydrocannabinol isomers and derivatives in the unregulated cannabis industry and poisoning and impairment cases by LC-MS/MS
15. Benedikt Pulver: Pharmacological evaluation of recently detected synthetic cannabinoid receptor agonists
16. Asena Avci Akca: Detection of drugs in drug-infused papers collected from English prisons
17. Marthe Vandeputte: When a prophecy comes true: ethyleneoxynitazene as a ‘prophetic’ member of the emerging class of 2-benzylbenzimidazole ‘nitazene’ synthetic opioids
18. Matilde Murari: The use of zebrafish early life stages to investigate the metabolism and toxic effects of nine NPS with opioid effects
19. Annette Zschiesche: Insights into the metabolism of CH-PIATA – a newly emerged synthetic cannabinoid receptor agonist featuring an acetamide linker
14.30 - 16.10  S3 - DUID, alcohol biomarkers and DFSA

O20. **Jari Rubbens**: Enhancing efficiency based on a decade of experience with authentic oral fluid samples: novel extraction method & UHPLC/MS-MS analysis for simultaneous determination of 18 compounds

O21. **Dimitri Gerostamoulos**: Crash Risk of Drugs in Injured Drivers in Victoria, Australia – an update

O22. **Jasmine Maxwell**: 11 Year of review of 1,1-Difluoroethane in Driving Under the Influence (DUI) cases in toxicology and breath alcohol testing

O23. **Jose Luiz Costa**: Clobenzorex in authentic oral fluid samples: method development and investigation of the abuse in a DUID context

O24. **Karen Hayes**: Roadside Oral Fluid Drug Testing in Ireland – A 6 Year Review

O25. **Franco Tagliaro**: Different degrees of association of carbohydrate deficient transferrin, mean corpuscular volume and gamma-glutamyltransferase with occurrences of alcohol-related road traffic crashes

O26. **Sian Bevan**: Hair EtG testing in combination with measurements of PEth and EtG in blood to improve the assessment of alcohol consumption

O27. **Wiebke Rudolph Allritz**: Driving under the influence of alcohol with BAC less than 0.5% - Do we miss the drugs of abuse?

O28. **Peter Stockham**: High co-detection rates of gamma-hydroxybutyrate and methamphetamine in emergency department patients across Australia – Cause for concern?

O29. **Andrea Steuer**: Urinary concentrations of GHB and its amino acid and carnitine conjugates following controlled GHB administration in humans

16.50 - 18.20  S4 - Free Topics

O30. **Simon Elliot**: No laughing matter? – nitrous oxide use and detection in toxicology casework

O31. **Meng Hu**: High resolution mass spectrometry based non-target screening and risk assessment of organic pollutants in surface water of the Hai River

O32. **Arianna Giorgetti**: External contamination of hair by cannabis and “light cannabis” delivered by smoking and vaping: an in vitro preliminary study

O33. **Islam Amin Lorabi**: Assessing the reliability of hair testing as a direct indicator of substance abuse: Preliminary findings from the EHDAN (European Hair Drug Analysis Network) project in France

O34. **Liesl Janssens**: Activity-based detection of hypoxia-induced factor (HIF) stabilizers: a future-proof complementing method in doping control?

O35. **Marta Concheiro**: Pharmaceuticals and drugs of abuse in New York City rivers

O36. **Henrique Silva Bombana**: Psychoactive substance use in Brazil: regional differences among four Brazilian regions

O37. **Lennaert Borra**: Three postmortem cases of suspected ayahuasca intoxication: Identification and quantification of N,N-dimethyltryptamine and harmala alkaloids in postmortem human matrices

O38. **Michael Scholz**: DUIs: Driving under the influence of sleepiness – first insights from the ME-SMART study
### S5 - Young Scientists - part 1

**08.50 - 10.00**

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<td>O40.</td>
<td>Andre Luis Fabris: A solvent-free parallel artificial liquid membrane extraction for toxicological analyses</td>
<td>Andre Luis Fabris</td>
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<td>O41.</td>
<td>Jennifer Liut: Preliminary evaluation of 4-palmitoyloxy butyrate as a potential biomarker after γ-hydroxybutyric acid ingestion</td>
<td>Jennifer Liut</td>
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<td>O42.</td>
<td>Bilel Chefirat: Interest of cholinesterases as predictive biomarker of schizophrenia</td>
<td>Bilel Chefirat</td>
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<td>O43.</td>
<td>Fabrizio Lo Faro, Anastasio Tini: Development and validation of a quantitative LC-MS/MS method for the stereoisomers 9R- and 9S-hexahydrocannabinol in blood, oral fluid and urine: application to authentic human samples</td>
<td>Fabrizio Lo Faro, Anastasio Tini</td>
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<td>O44.</td>
<td>Giulia Bambagiotti, Maria Sofia Fede: Hexahydrocannabinol (HHC) concentrations in blood, oral fluid and urine following a single controlled administration of 25 mg inhaled HHC to seven volunteers</td>
<td>Giulia Bambagiotti, Maria Sofia Fede</td>
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<td>O45.</td>
<td>Martin Scheu: Pharmacology of SCRA: how important is the effect of the side chain moiety?</td>
<td>Martin Scheu</td>
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### S6 - Young Scientists - part 2

**10.50 - 12.00**

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<td>O46.</td>
<td>Maria Cobo Golpe: Usefulness of hair as a matrix for metabolome analysis – exemplified for amphetamine</td>
<td>Maria Cobo Golpe</td>
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<td>O47.</td>
<td>Elias Iturrospe: Ethoxylated phosphorylcholine as a new marker for ethanol consumption: discovery and proof-of-concept</td>
<td>Elias Iturrospe</td>
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<td>O49.</td>
<td>Axelle Timmerman: In vitro activity-based screening of seized plant materials for the presence of synthetic cannabinoid receptor agonists</td>
<td>Axelle Timmerman</td>
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<td>O50.</td>
<td>Aline Vollmer: Extraction of amatoxins from human urine using immunoprecipitation and liquid chromatography high-resolution tandem mass spectrometry – A proof of concept study</td>
<td>Aline Vollmer</td>
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<tr>
<td>O51.</td>
<td>Steven Baginski: Structure-Metabolism Relationships of 4-Pentenyl Synthetic Cannabinoid Receptor Agonists</td>
<td>Steven Baginski</td>
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<td>O52.</td>
<td>Beatrice Garneau: Is methadone chronic use related to postmortem redistribution towards femoral blood?</td>
<td>Beatrice Garneau</td>
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### S7 - Live Poster Session from Young Scientists

**14.40 - 17.50**

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<td>LP1.</td>
<td>Christina Ververi: Method development for the quantification of nitazenes in Dried Blood Spots utilizing liquid chromatography- tandem mass spectrometry</td>
<td>Christina Ververi</td>
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<td>LP2.</td>
<td>Muhammad Usman: The threat of Amphetamine type stimulants (ATS) for the society of Pakistan: an analysis based on seizure data and seized illicit drug materials</td>
<td>Muhammad Usman</td>
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<td>LP3.</td>
<td>Duygu Ye im Ovat: Importance of including pregabalin screening in routine clinical and forensic drug testing to identify substance abusers avoiding legal consequences</td>
<td>Duygu Ye im Ovat</td>
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<td>LP5.</td>
<td>Xin Wang: Toxicological investigation of 20 aconitine-induced deaths</td>
<td>Xin Wang</td>
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<td>LP6.</td>
<td>Jade Mader: Development, validation, and implementation of a multi-analyte drug panel using LC-MS/MS for forensic casework in Cape Town, South Africa</td>
<td>Jade Mader</td>
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</table>
Serena Mestria: Rapid and simple dispersive liquid-liquid microextraction sample preparation for propofol analysis in biological specimens

Nadia Arbouche: Spiritual rituals and psychotropic drugs: ethno-toxicology applied to century-old specimens of ayahuasca, peyote and Mariani wine

Caitlyn Norman: Evaluation of fentanyl immunoassay test strips for rapid in situ detection of fentanyl and fentanyl analogs in seized samples and alternative matrices

Duqi Xu: Pharmacokinetic study of estazolam in hair roots after controlled oral administration: Exploration of the mechanism of drug incorporation

Marta Massano: Metabolic study of N-ethylhexedrone, N-Ethylpentedrone, and 4-Chloromethcathinone in urine samples by UHPLC-QTOF-HRMS

Nunzia La Maida: Concentrations of clephedrone, N-ethyl Pentedrone and N-ethyl Hexedrone in oral fluid in humans analyzed by GC-MS/MS

Willi Schirmer: Identification of hexahydrocannabinol metabolites

Shirley Verschoor: Development and validation of a quantitative LC-MS/MS method to investigate the potential role of alternative matrices in postmortem toxicology

Natan Van Wichelen: In vitro biotransformation of 3-methylmethcathinone (3-MMC) in human liver microsomes and correlation with the in vivo situation

Saba Jorbenadze: Some technical aspects of enantioselective high-performance liquid chromatography tandem mass spectrometry

Tamar Kathiashvili: Novel enantioselective high-performance liquid chromatography-tandem mass spectrometry method for simultaneous determination of methorphan and its O-demethylated metabolite in postmortem blood samples

Malin Johansson: Identification and findings of hexahydrocannabinol (HHC) in oral fluid and its carboxy metabolite in urine samples

Omayema Taoussi, Aurora Balloni: Etodesnitazene et metodesnitazene human metabolism

Angelica Ørregaard Lindholm: Measuring Nitrous Oxide Abuse in Traffic Cases – Results from Copenhagen and Eastern Denmark

Matthias Bantle: Lyso-Phosphatidylethanol: A new marker for alcohol consumption monitoring?

Annika Andersson: Method development and validation for the chiral measurement %f amphetamine study in nightclubs

Matthias Bantle: Lyso-Phosphatidylethanol: A new marker for alcohol consumption monitoring?

Nadja Mario Porpiglia: Comparison between ethyl glucuronide and cocacethylene in the hair of cocaine users

Theo Willeman: Smartphones swabs analysis as a promising tool for toxico-epidemiology: a proof of concept study in nightclub

Catalina Dumitrascu: Microplate liquid-liquid extraction: a rapid technique for routine analysis of phosphatidylethanol 16:0/18:1 in whole blood

Alexander Son Nicolas: Driving risk assessment in Indiana, United States of America: a 3-year retrospective analysis among drivers with cannabinoids in their whole blood

Giacomo Musile: Paper-based microfluidic devices: novel and versatile tools for forensic toxicologists

Petra Hehet: Results of a multi-site prevalence study on synthetic cannabinoid receptor agonists (SCRAs) in sewage systems: Correlation with hair analysis and seizure data

Margot Balcaen: Severe, poly-drug intoxications involving ‘Flakka’: A compilation of Belgian case reports

Alessandro Di Giorgi, Gloria Daziani: A green analytical method for the simultaneous determination of 17 perfluorooalkyl substances (PFAS) in plasma and semen by ultra performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS)
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<td>Marine Deville: Barbie Drug identification: not child’s play</td>
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<td>O54</td>
<td>Albert Elmsjo: Postmortem Metabolomics Identifies Potential Biomarkers for Hypothermia-Related Deaths</td>
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<td>O55</td>
<td>Madysen Elbourne: Enhanced data analysis workflows for LC-HRMS used in forensic toxicology applications</td>
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<td>O56</td>
<td>Elies Zarrouk: Study of the metabolism and possible drug-drug interactions of the novel cathinone derivative 3-MMC combining three in vitro approaches</td>
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<td>O57</td>
<td>Victoria Marland: Detection and quantification of novel benzodiazepines in tablets, powders, blotters and infused materials from Scottish prisons</td>
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<td>O58</td>
<td>Mira Sundstrom: Simplifying drug screening workflow for clinical toxicology samples: dilute and shoot with high-resolution time-of-flight mass spectrometry applying a new, highly enhanced heated electrospray ionization technique</td>
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<td>O59</td>
<td>Romain Magny: Metabolomics-based investigation of a severe venlafaxine poisoning case</td>
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<td>O60</td>
<td>Samantha Joubert: Rapid and fully-automated analysis of 69 drugs of abuse and their metabolites in urine</td>
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<td>O61</td>
<td>Svante Vikingsson: Δ8-tetrahydrocannabinol – a prevalent drug in the workforce of the USA</td>
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<td>O62</td>
<td>Tais Rodrigues: A fast and straightforward method for simultaneous analysis of THC, its metabolites and other cannabinoids in human urine by packed in-tube SPME-LC-MS/MS</td>
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<td>O63</td>
<td>Isabel Brueckner: α-Pyrrolidinohexanophenone (α-PHP) and α-Pyrrolidinoisoheranophenone (α-PiHR): The party is going on</td>
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<td>O64</td>
<td>Elod Hidvegi: GC-MS markers in urine of N-ethyl-norpentedrone use</td>
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<td>O65</td>
<td>Rukiye Aslan: Comparison of the performance of laboratory-made solid phase microextraction (SPME) fibers for amphetamine-type stimulants determination</td>
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<td>O67</td>
<td>Dayong Lee: Changing landscape of forensic toxicological analysis for cannabis-impaired driving investigation</td>
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<td>O68</td>
<td>Jennifer Schumann: Novel harm minimization measures at festival events in Australia: pilot implementation of the Emerging Drugs Network of Australia- Victoria (EDNAV) toxico-surveillance methodology</td>
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<td>O69</td>
<td>Curt Harper: A 12-Year Review of Fentanyl Identification in Overdose and Drug Related Driving Cases</td>
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<td>O70</td>
<td>Hannes Schwelm: 5-Methoxy-2-aminoindane: From NPS to an ‘anti-binge drinking’ drug</td>
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**THURSDAY, AUGUST 31**

**8.00 - 9.30  S10 - Free Topics and Doping**

O71. Nicolas Fabresse: Adulterated dietary supplement: a common issue with serious consequences

O72. Jared Castle: Identification of clonazolam in emergency department intoxications and coronial casework in Victoria, Australia

O73. Xue Qin Ng: Characterization of unknown LSD isomer and its metabolism using human liver microsomes and LC-QTOF-MS

O74. Jean Claude Alvarez: First method to test roxadustat in hair and application to a chronically treated patient

O75. Cristina Sempio: LC-MS/MS Quantification of Δ8-THC, Δ9-THC, THCV Isomers and Their Main Metabolites in Human Plasma

O76. Laurie Gheddar: Testing for clomifene in keratinous matrices using LC-MS/MS in a doping case: interpretation of the results

O77. Maria Kristina Parr: Analytical quality by design for multi-target analysis: supercritical fluid chromatography-MS/MS method development for doping control analysis

O78. Kathy Tou: Complementary biomarker detection for nitrogenous bisphosphonate use in racehorses

O79. Lina Lucuta: Detectability of oxandrolone, metandienone, clomestanol and dehydrochloromethyltestosterone in urine after transdermal application

**10.30 - 12.20  S11 - Postmortem toxicology**

O80. Hongjuan Ma: Simultaneous determination and postmortem distribution of paraquat and its metabolites in four paraquat poisoning death cases

O81. Dirk Wissenbach: False positive MDA findings in HRMS-based screening of putrefied postmortem blood samples – Identification of the interfering compound as N-acetyliyramine

O82. Pai-shan Chen: Monitoring multiple-class new psychoactive substances in metropolitan Taipei wastewater during the COVID-19 pandemic

O83. Craig Chatterton: A review of over 1250 benzo-dope / fentanyl toxicity cases in Alberta, Canada

O84. Rogier van der Hulst: Postmortem distribution of morphine and its metabolites in human remains after 13 weeks of burial

O85. Sarah Russell: Eight cases involving colchicine in New Zealand since 2019

O86. Carlos Garcia-Caballero: Deaths in prison: toxicological findings in a cohort of cases over two years in Madrid area (Spain)

O87. Yannick Warfmann: Postmortem Metabolomics: Influence of time since death on the level of endogenous compounds. Necessary to be considered in metabolome study planning?

O88. Gustav Engvall: Postmortem metabolomics of opioid intoxications and hangings

O89. Liam Ward: Large-scale untargeted metabolomics in forensic postmortem investigations: a new tool for cause-of-death screening

O90. Bronwen Davies: Methamphetamine and methaqualone in infant deaths: A case series from Cape Town, South Africa
13:50 - 15:00  S12 – SiBioC: Latest updates in Laboratory Medicine

O91. Federica Pigliasco: A new LC-MS/MS method for the quantification of fenfluramine and cannabidiol in drug-resistant pediatric patients

O92. Francesca Di Gaudio: Technical and health governance aspects of the External Quality Assessment Scheme for New Psychoactive Substances (NPS) molecular tests

O93. Viviana Izzo: Therapeutic Drug Monitoring of opioids for pain management


O95. Leila Gholamhazrat Hojat: Effects of Ketamine on psychomotor, sensory, and cognitive functions relevant for driving

O96. Riccardo Addobbati: An improved fast toxicological screening API LC-MS/MS method for forensic purposes

O97. Simona Zaami: Challenges of Italian early warning system on New Psychoactive Substances

O98. Gabriele Napoletano: Building bridges between clinical and forensic toxicology
Bruno Spinosa De Martinis: Development and validation of a method for the determination of Δ9-tetrahydrocannabinol and cannabidiol in sweat samples using DPX-WAX disposable pipette tips

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Aurora Balloni: In vitro human metabolism of IOX2, a hypoxia-inducible factor (HIF) activating agent and prohibited substance in sport
Fabion Frankenfeld: Quantification of drugs of abuse, cognitive enhancers, and their biomarkers in wastewater of a university hospital — A comparative study

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LP2. Muhammad Usman: The threat of Amphetamine type stimulants (ATS) for the society of Pakistan: an analysis based on seizure data and seized illicit drug materials
LP3. Duygu Ye im Ovat: Importance of including pregabalin screening in routine clinical and forensic drug testing to identify substance abusers avoiding legal consequences
LP5. Xin Wang: Toxicological investigation of 20 aconitine-induced deaths
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Malin Johansson: Identification and findings of hexahydrocannabinol (HHC) in oral fluid and its carboxy metabolite in urine samples

Omayema Taoussi, Aurora Balloni: Etodesnitazene and metodesnitazene human metabolism

Angelica Ørregaard Lindholm: Measuring Nitrous Oxide Abuse in Traffic Cases – Results from Copenhagen and Eastern Denmark

Matthias Bantle: Lyso-Phosphatidylethanol: A new marker for alcohol consumption monitoring?

Annika Andersson: Method development and validation for the chiral measurement of amphetamine enantiomers in oral fluid

Nadia Maria Porpiglia: Comparison between ethyl glucuronide and cocaethylene in the hair of cocaine users

Theo Willemen: Smartphones swabs analysis as a promising tool for toxico-epidemiology: a proof of concept study in nightclub

Catalina Dumitrascu: Microplate liquid-liquid extraction: a rapid technique for routine analysis of phosphatidylethanol 16:0/18:1 in whole blood

Alexander San Nicolas: Driving risk assessment in Indiana, United States of America: a 3-year retrospective analysis among drivers with cannabinoids in their whole blood

Giacomo Musile: Paper-based microfluidic devices: novel and versatile tools for forensic toxicologists

Petra Hehet: Results of a multi-site prevalence study on synthetic cannabinoid receptor agonists (SCRAs) in sewage systems: Correlation with hair analysis and seizure data

Margot Balcaen: Severe, poly-drug intoxications involving ‘Flakka’: A compilation of Belgian case reports

Alessandro Di Giorgi, Gloria Daziani: A green analytical method for the simultaneous determination of 17 perfluoroalkyl substances (PFAS) in plasma and semen by ultra performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS)

Maarten Degreef: Are we focussing too much on new psychoactive substances? Lessons learned from the Belgian festival season

Alice Ameline: Is mitragynine the best target to document kratom consumption? Identification of other alkaloids in hair or nails from two consumers

Mark Tyler: Chemsex-related deaths: toxicology data (2017 – 2022)

Aaron Shapiro: Formation of a pan-Canadian toxicology laboratory response network for NPS surveillance

Piotr Adamowicz: Drugs detection in fingerprints

Lata Gautam: Drink spiking: social issues and scientific challenges

Thomas Berg: A precise and accurate LC-MS/MS method for determination of six phosphatidylethanol homologues in blood

Margot Balcaen: Concern for fentanyl-laced heroin negated through the RADAR-heroin-23 project

Lana Bakuli: Carbofuran quantification: A fatal intoxication with carbamate insecticide carbofuran

Luis Ferrari: Evaluation of cocaine use as a factor in recidivism among offenders on probation

Asli Atasoy Aydin: In vitro cytotoxicity and identification of phase I metabolites of 5F-NPB-22 using human liver cell line

Gabriela de Paula Meirelles: Development of a Green Analytical Toxicology analytical method for the evaluation of maternal-fetal exposure to cocaine in umbilical cord tissue

Rafael Linden: Determination of ethyl-glucuronide and ethyl-sulfate in blood by UPLC-MS/MS: evaluation of trauma victims

Kamran Shahzad: A case study of chlorpyrifos poisoning and identification by GC-MS

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Sebastian Rojek: Analytical and interpretative problems due to the presence of chloromethcathinone isomers in biological material from postmortem cases

Lingyu Liu: Human skin cells as an in vitro model for metabolism of anabolic steroids

Teemu Gunnar: Analysis of used syringes of injecting drug users: 6 years of experience with the approach in Finland

Morcos Athina: Volumetric Absorptive Microsampling (VAMS) as a potential tool for postmortem toxicological screening on various biological matrices

Emanuele Ceccon, Jamie York: One Column One Setup Consolidating LC-MS/MS Method Conditions for the Analysis of Alcohol Metabolites, Barbiturates, and Drugs of Abuse

Laura Franke: Evaluation of Screening Methods for Urine Adulteration by Synthetic Urine

Linda Glowacki: Identification of delta-8-tetrahydrocannabinol in drugs and driving cases – implications for forensic casework

Zhe Chen, Keming Yun: A graphene oxide-aptamer nanosystem for fluorescent detection of ketamine in blood and urine samples

Suzana Fonseca: Development and validation of a multi-substance method for routine analysis of pesticides in post-mortem samples by UPLC-MS/MS

Akiko Nakauchi: High resolution and high precision analysis of barbiturates and a metabolite in human body fluids using a Monolithic SPE SpinTip and UPLC-Q-ToF-MS

Samar Alzeer: Mercury and Arsenic levels in whole blood of children diagnosed with autism spectrum disorder (ASD), their siblings and unrelated controls

Nebile Daglioglu: Postmortem heroin redistribution with and without fentanyl contamination or adulteration

Rafael Linden: A micro-QuEChERS procedure for the simultaneous determination of amphetamines, opiates and cocaine and metabolites in capillary plasma microsamples using UHPLC-MS/MS

Cristian Palmiere: Consumption patterns of psychotropic substances in individuals undergoing fitness-to-drive medical assessment: investigating designer benzodiazepines use

Brian Waters: Separation of Barbiturates by Fast GC-MS/MS and Tandem Columns

Ivo Ivanov: Analysis of seized herbal mixtures containing synthetic cannabinoids in Bulgaria during the last 5 years

Shahid Ullah: Analysis of drugs of abuse in oral fluid by liquid chromatography triple quadrupole mass spectrometry

Marionne Skov-Skov Bergh: Metabolite markers for the three synthetic tryptamines N-ethyl-N-propyltryptamine, 4-hydroxy-N-ethyl-N-propyltryptamine, and 5-methoxy-N-ethyl-N-propyltryptamine

Xinxin Ren: LC-MS/MS analysis of antipyretic analgesics in human blood using isotope internal standard and application to forensic cases

Kenji Kuwayama: Influence of temperature, humidity, light, and soil on drug stability in hair: applicability of drug-distribution measurement using micro-segmental analysis to the hair of dead bodies left in natural environments

Gaelle Magliocco: Is vortioxetine subject to post-mortem redistribution?

Bernardino Barcelo: Demographic and toxicological profiles of high-risk methylone users admitted to the Emergency Services

Eirin Bakke: Enantiomer specific analysis of amphetamine in blood, urine and oral fluid

Audrey Beauchamp Doré: On-site drug detection coasters to assess drink safety: a false sense of security

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P202. Prince Sellase Gameli: NPS in Africa: Data! Data!! Data!!! You cannot make bricks without clay
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