



PROGRAM OVERVIEW

PROGRAM OVERVIEW

Sunday 26 August

8h30 - 21h00	Registration desk	ICC (first floor)
8h00 - 11h30	Executive Board Meeting	Baekeland 1
9h00 - 12h30	Young Scientist Symposium	Baekeland 2
11h30 - 12h30	Regional Representatives Meeting	Baekeland 1
12h00 - 13h30	Lunch (SoHT Members, Young Scientists, Regional Representatives & Board Members)	
13h00 - 16h00	SoHT meeting	Baekeland 2
14h00 - 17h30	Guided tour + SCIEX Workshop	
14h00 - 16h30	Guided tour	Start at entrance ICC
16h30 - 17h30	SCIEX Workshop	Baekeland 1
14h00 - 16h30	Guided tour + BRUKER Workshop	
14h00 - 16h30	Guided tour	Start at entrance ICC
16h30 - 17h30	BRUKER Workshop	Baekeland 2
18h45 - 21h00	Arty Opening Reception at Museum of Fine Arts	MSK

PROGRAM OVERVIEW



9h00 - 9h45	Opening Ceremony	Auditorium
9h45 - 12h25	ALTERNATIVE SESSION I	Auditorium
09h45 - 10h15	Keynote presentation by Jack Henion	
10h15 - 10h45	Coffee & Tea	Artevelde forum
10h45 - 12h25	Oral presentations	
12h30 - 14h00	Lunch	Artevelde forum
	Flash poster presentations	
13h15 - 13h50	Alternative	Van der Goes
13h20 - 13h50	Drugs and Driving	Hubert van Eyck
14h00 - 15h10	ALTERNATIVE SESSION II	Auditorium
14h00 - 15h10	Oral presentations	
15h10 - 15h40	Coffee & Tea	Artevelde forum
15h40 - 17h50	DRUGS AND DRIVING	Auditorium
15h40 - 16h10	Keynote presentation by Johannes Ramaekers	
16h10 - 17h50	Oral presentations	
18h15 - 20h45	SHIMADZU Workshop + Boat tour	Baekeland 1
18h15 - 19h15	SHIMADZU Workshop	
19h15 - 20h45	Boat tour	
18h15 - 20h45	WATERS Workshop + Boat tour	Baekeland 2
18h15 - 19h15	WATERS Workshop	
19h15 - 20h45	Boat tour	
8h30 - 18h30	Registration desk	ICC (first floor)
13h00 - 14h00	Scientific Posters	Minne Square
	Alternative / Drugs and Driving	



8h30 - 12h25

POST-MORTEM SESSION

- 08h30 - 09h00 Keynote presentation by **Noel Woodford**
- 09h00 - 10h20 Oral presentations
- 10h20 - 10h50 Coffee and Tea
- 10h50 - 12h20 Oral presentations

12h20 - 14h00

Lunch

Flash poster presentations

13h05 - 13h50

Post-Mortem & NPS

13h05 - 13h50

NPS

14h00 - 18h00

NPS SESSION

- 14h00 - 14h30 Keynote presentation by **Michael Evans-Brown**
- 14h30 - 15h50 Oral presentations
- 15h50 - 16h20 Coffee & Tea
- 16h20 - 18h00 Oral presentations

18h15 - 20h45

THERMOFISHER Workshop + Boat tour

- 18h15 - 19h15 THERMOFISHER Workshop
- 19h15 - 20h45 Boat tour

18h15 - 20h45

AGILENT Workshop + Boat tour

- 18h15 - 19h15 AGILENT Workshop
- 19h15 - 20h45 Boat tour

21h30 - 00h30

Young Scientist Night Out

- 8h00 - 18h30 Information desk

13h00 - 14h00

Scientific Posters

Post-Mortem / NPS

Auditorium

Artevelde forum

Artevelde forum

Van der Goes

Hubert van Eyck

Auditorium

Artevelde forum

Baekeland 1

Baekeland 2

White Cat

ICC (first floor)

Minne Square



Wednesday 29 August

8h30 - 12h10

SOCIETY OF HAIR TESTING (SoHT)

08h30 - 09h00

Key-note presentation by **Markus Baumgartner**

09h00 - 10h20

Oral presentations

10h20 - 10h50

Coffee & Tea

10h50 - 12h10

Oral presentations

12h15 - 23h00

Social Afternoon - Bruges

12h15 - 13h15

Walk to Ghent station and lunch

13h21

TIAFT Express train leaves

14h00 - 16h00

Guided walk Bruges

16h00 - 18h30

Free time

18h30 - 23h00

Dinner

8h00 - 12h25

Information desk

Auditorium

Artevelde forum

Ghent Station track 9

Belfry Halls

ICC (first floor)



Thursday 30 August

8h30 - 12h20

ANALYTICAL SESSION

08h30 - 09h00 Keynote presentation by **Pat Sandra**

09h00 - 10h20 Oral presentations

10h20 - 10h50 Coffee & Tea

10h50 - 12h20 Oral presentations

12h20 - 14h00 Lunch

Flash poster presentations

13h05 - 13h50 SoHT

13h05 - 13h50 Analytical

14h00 - 15h25

DOPING SESSION

14h00 - 14h30 Key-note presentation by **Mario Thevis**

14h30 - 15h25 Oral presentations

15h25 - 15h45 Coffee & Tea

15h45 - 17h30

GENERAL ASSEMBLY

19h30

Sporty Farewell Dinner

8h00 - 18h00 Information desk

13h00 - 14h00

Poster Discussion Sessions

SoHT / Analytical / Doping

Auditorium

Artevelde forum

Artevelde forum

Van der Goes

Hubert van Eyck

Auditorium

Artevelde forum

Auditorium

Kuipke

ICC (first floor)

Minne Square

PROGRAM OVERVIEW



Scientific Program

Sunday 26 August 2018

9h00

YOUNG SCIENTIST SYMPOSIUM

Baekeland 2

9h00

Introduction

9h30

'How a reviewer reads a paper'

Hans Maurer (Homburg, Germany)

10h00

The impact of tox testing in the total approach of forensic investigations

Karolien Van Dijck (Brussels, Belgium)

10h30

Correlation between hair and nail concentrations

Luca Morini (Pavia, Italy)

11h00

Coffee & Tea

11h15

Phosphatidylethanol as a marker for alcohol consumption during pregnancy

Brenda De Winter (Rotterdam, The Netherlands)

11h30

Emergency analysis in a clinical toxicology unit in Brazil

Raphaël Lanaro (Campinas, Brazil)

11h45

Identification, characterization and detection of novel synthetic cannabinoids

Lukas Mogler (Freiburg, Germany)

12h00

Synthetic cannabinoid receptor agonists detected in an emergency department, and in post-mortem casework

Alice Seywright (Glasgow, United Kingdom)

12h30

Lunch

SCIENTIFIC PROGRAM

09h00		Opening Ceremony	Auditorium
09h45		ALTERNATIVE SESSION I Moderators: Simona Pichini & Willy Lambert	Auditorium
09h45	KN1	Keynote 1 Do micro sampling techniques have a place in the forensic laboratory? LC/MS applications with opioids and marijuana Jack Henion (New York, USA)	
10h15		Coffee & Tea	
10h45	001	<i>Development and validation of an LC-MS/MS method for the determination of antidepressants in meconium and application to real specimens</i> López-Rabuñal A., Lendoiro E., Concheiro M., Cruz-Landeira A., López-Rivadulla M., <u>de Castro A.</u> (Santiago de Compostela, Spain)	
10h56	002	<i>Drug consumption identified by hair analysis among MSM in the ANRS Ipergay study (on-demand pre-exposure prophylaxis for HIV infection); relationship with risky practices</i> <u>Alvarez J.-C.</u> , Bauer R., Roux P., Capitant C., Molina J.M., Pialoux G., Etting I., Fabresse N., Chas J. (Garches, France)	
11h07	003	<i>Drug analysis of 28 non-mineralized dental biofilm (plaque) samples from patients in opioid replacement therapy</i> <u>Henkel K.</u> , Klima M., Altenburger M.J., Auwärter V., Neukamm M.A. (Freiburg, Germany)	
11h18	004	<i>Determination of EtG and EtS in umbilical cord to detect alcohol exposure during pregnancy</i> Hanna J., de Castro A., Lendoiro E., Cruz-Landeira A., López-Rivadulla M., <u>Concheiro M.</u> (New York, USA)	
11h29	005	<i>Nails analysis for drugs used in the context of Chemsex</i> <u>Busardò F.P.</u> , Gottardi M., Gardumi A., Pacifici R., Tini A., Giorgetti R., Pichini S. (Rome, Italy)	
11h40	006	<i>Analysis of 12 cannabinoids and metabolites by online extraction liquid chromatography atmospheric pressure ionization tandem mass spectrometry assay in human breast milk</i> <u>Sempio C.</u> , Wymore E., Klawitter J., De Bloois E., Palmer C., Bunik M., Henthorn T., Heinrich R., Christians U., Klawitter J. (Aurora, CO, USA)	
11h51	007	<i>Application of a new sampling device for measuring THC, 11-hydroxyTHC and THC-COOH in exhaled breath with LC-MS/MS</i> van Gendt-de Jong L., Olyslager E., Wieferink J., <u>Beck O.</u> (Stockholm, Sweden)	



Monday 27 August 2018

- 12h02 008 *Application of multidimensional liquid chromatography with targeted mass spectral analysis of complex matrices: from blood to bone and beyond...*
Botch-Jones S., Mella M., Schweitzer B., Benevento K., Moore T., Mallet C. (Boston, MA, USA)
- 12h13 009 *Wastewater-based epidemiology complements traditional information on illicit drug use*
Gunnar T., Kankaanpää A., Kuoppasalmi K. (Helsinki, Finland)
- 12h25-14h00 Lunch

Flash Poster Presentations

13h15 - 13h50 Alternative
13h20 - 13h50 Drugs and Driving

Van der Goes
Hubert van Eyck

- 13h15 Alternative** **Van der Goes**
Moderator: Hugo Neels
- 13h15 P001 *Systematic evaluation of washing and extraction protocols for metabolomics analysis of hair*
Eisenbeiss L., Binz T.M., Baumgartner M.R., Kraemer T., Steuer A.E. (Zurich, Switzerland)
- 13h20 P002 *Vitreous toxicology: analysis of opioids using UHPLC Orbitrap MS*
Santos Júnior J.C., Mesquita S., Mollo Filho P.C., Tartarella M.A., Alves Carneiro G.R., Cardoso dos Santos G.R., Sardela V.F., Eberlin M.N., Höehr N.F. (Campinas, Brazil)
- 13h25 P003 *Illicit drug consumption estimations obtained from wastewater analysis in city of Adana, Turkey*
Daglioglu N., Yavuz G.E., Kilercioglu S., Gören İ.E. (Adana, Turkey)
- 13h30 P004 *Development of a fast and accurate analysis method for drugs of abuse in oral fluid using high resolution mass spectrometry - Analytical and practical challenges in a clinical laboratory*
Andresen Bergström M., Abrahamsson A., Eriksson E., Lindbjer Andersson M., Lundberg L., Pourgheli D., Axelsson M. (Gothenburg, Sweden)
- 13h35 P005 *Optimization of a method for the determination of fatty acids in dental plaque by GC-MS and analysis of authentic samples from subjects in opioid replacement therapy*
Roth S.R., Henkel K., Altenburger M.J., Auwärter V., Neukamm M.A. (Freiburg, Germany)

13h40 P006 *Serial poisoning in a nursing home: interest of toxicological analyses, especially in bone marrow and hair*
Allibe N., Barret A., Eysseric-Guérin H., Paysant F., Henry P., Grojean J., Stanke-Labesque F., Scolas V. (Grenoble, France)

13h45 P007 *Evaluation of the stability of dried blood spots as quality controls for drugs of abuse*
Augsburger M., Valois N., Déglon J., Lauer E., Thomas A. (Geneva, Switzerland)

13h20 **Drugs and Driving**

Hubert van Eyck

Moderator: Jean-michel Gaulier

13h20 P044 *Driving under the influence in Italy: a snapshot on a selected population of traffic accidents*
Odoardi S., De Giovanni N., Brisighelli F., Valentini V., Mestria S., Cerabino L.M., Strano Rossi S. (Rome, Italy)

13h25 P045 *Estimation of whole blood THC concentration drop per hour based on 27 real case analyses*
Lechowicz W., Adamowicz P., Gil D., Gieroń J., Skulska A., Tokarczyk B. (Krakow, Poland)

13h30 P046 *Cannabidiol and Δ^9 -tetrahydrocannabinol blood concentrations in Swiss road traffic cases*
Gelmi T., Strahm E., Dubugnon L., Weinmann W. (Lausanne, Switzerland)

13h35 P047 *Driving under influence of drugs in Finland during 2013-2017*
Mykkänen S., Varjos P., Kankaanpää A., Gunnar T. (Helsinki, Finland)

13h40 P048 *Zolpidem (Ambien) and driving in Alabama, USA: A 10 year retrospective study*
Harper C.E. (Alabama, USA)

13h45 P049 *Estimating the time of last diazepam use from the relationship between diazepam and its metabolites in human fluid*
Wang L., Jia J., Ren X., Cu G., He Y., Wei Z., Liu Y., Liu L., Yun K. (Taiyuan, China)

14h00 **ALTERNATIVE SESSION II**

Auditorium

Moderators: Simona Pichini & Willy Lambert

14h00 O10 *Concealed administration of new psychoactive substances and trafficking: examination of several matrices including clothes*
Aknouche F., Maruejols C., Pelletier A., Gasnot W., Pellegrino F., Ameline A., Richeval C., Shapira A.J., Coulon A., Allorge D., Gaulier J.M., Kintz P. (Nice, France)

14h11 O11 *Quartz crystal microbalance nanosensors based on molecularly imprinted polymer for sensitive and label-free detection of synthetic cannabinoids in oral fluid*
Battal D., Yalcin M.S., Akgonullu S., Yavuz H., Denizli A. (Mersin, Turkey)

Monday 27 August 2018

- 14h22 012 *Rapid and sensitive analysis of synthetic cannabinoids and their metabolites in human hair by online SFE-SFC-MS/MS*
Kikura-Hanajiri R., Kawamura M., Goda T., Masuda J., Hakamatsuka T.(Kanagawa, Japan)
- 14h33 013 *Detection of synthetic opioids and fentanyl analogs in real hair samples*
Salomone A., Palamar J.J., Di Corcia D., Gerace E., Vincenti M. (Turin, Italy)
- 14h44 014 *Detection and visualization of methadone and EDDP using MALDI-MS in undecalcified bone tissue*
Vandenbosch M., Svirikova A., Marchetti-Deschmann M., Cuypers E. (Leuven, Belgium)
- 14h55 015 *Evaluation of micro-sampling hyphenated to UHPLC-HRMS for broad screening of drugs and pharmaceuticals*
Joye T., Sidibe J., Déglon J., Karmime A., Sporkert F., Favrat B., Lescuyer P., Augsburg M., Thomas A. (Geneva, Switzerland)
- 15h10 *Coffee & Tea*

15h40 DRUGS AND DRIVING SESSION

Auditorium

Moderators: Donata Favretto & Alain Verstraete

- 15h40 KN2 **Keynote 2**
Thresholds of driving impairment: on cannabis and opioids
Johannes G. Ramaekers (Maastricht, The Netherlands)
- 16h10 016 *Evidence based survey of the distribution volume of ethanol and reliability of various indirect methods of estimation based on anthropometric measures*
Maskell P.D., Jones A.W., Scott-Ham M. (Dundee, UK)
- 16h21 017 *Blood kinetics of ethyl glucuronide and ethyl sulphate during repeated ingestion*
Høiseth G., Kronstrand R. (Oslo, Norway)
- 16h32 018 *Comparison of the incidence of drugs and alcohol in drivers using the recommendations of a 2013 and 2017 consensus study*
Isenschmid D., Chan-Hosokawa A., Logan B. (Willow Grove, PA, USA)
- 16h43 019 *Long-term effects of antidepressant and benzodiazepine usage on actual driving and neurocognitive performance*
van der Sluiszen N.N.J.J.M., Vermeeren A., Verster J.C., van de Loo A.J.A.E., Brookhuis K.A., Veldstra J., van Dijken J.H., Ramaekers J.G. (Maastricht, The Netherlands)

Monday 27 August 2018

- 16h54 020 *An explorative approach to observing the impairing effects of chronic benzodiazepine use on driving in a clinical population*
Vinckenbosch F.R.J., van der Sluiszen N.N.J.J.M., Ramaekers J.G. (Maastricht, The Netherlands)
- 17h05 021 *Driving under the influence of drugs: prevalence in road traffic accidents in Italy and considerations on "per se" limits legislation*
Favretto D., Visentin S., Stocchero G., Vogliardi S., Snenghi R., Montisci M. (Padova, Italy)
- 17h16 022 *Higher creatinine levels in ethyl glucuronide positive urines of subjects under controlled alcohol-abstinence program*
Polettini A., Bleicher S., Kutzler J., Mauerer R., Schultis W. (Weiden, Germany and Verona, Italy)
- 17h27 023 *Oral fluid confirmation analysis of drugged drivers: aftermath one year after the new French law*
Brunet B., Lelong J., Mura P. (Poitiers, France)
- 17h38 024 *New Psychoactive Substances in oral fluid of drivers around a music festival in south-west France in 2017*
Richeval C., Dumestre-Toulet V., Wiart J.-F., Vanhoye X., Humbert L., Nachon-Phanithavong M., Allorge D., Gaulier J.-M. (Lille, France)

Alternative

- P008 *Opium poisoning*
Martínez M.A., Ballesteros S. (Madrid, Spain)
- P009 *Fully automated drug screening of dried blood spots using online LC-MS/MS analysis*
Gaugler S., Rykl J., Grill M., Cebolla V.L. (Reinach, Switzerland)
- P010 *A novel approach for determination of paraquat based on dried blood spot (DBS) extraction and UHPLC-HRMS analysis*
Wen D., Yang Y., Xiang P., Yu F., Zheng F., Tao L., Shi Y., Zhang X., Dong M., Cong B., Ma C. (Shijiazhuang, China)
- P011 *Toxicological screening of gastric content: possible clinical applications*
Alma J., Koch B.C.P., de Winter B.C.M. (Rotterdam, the Netherlands)
- P012 *Determination of opiates in whole blood using microextraction by packed sorbent*
Prata M., Ribeiro A., Figueirinha D., Rosado T., Oppolzer D., Restolho J., Araújo A., Costa S., Barroso M., Gallardo E. (Covilhã, Portugal and Regensburg, Germany)
- P013 *When clothing analysis remains the only solution*
Pélissier-Alicot A.L., Ameline A., Kintz P., Baillif-Couniou V., Sastre C., Boval C., Delteil C., Adalian P., Léonetti G. (Marseille, France)
- P014 *Simultaneous detection of drugs associated with drug facilitated sexual assault using gas chromatography-mass spectrometry*
Gautam L., Grella A., Cole M.D. (Cambridge, United Kingdom)
- P015 *What you gain and what you lose: multi-target drug screening versus "general unknown" screening in oral fluid samples*
Lohrmann S., Beck O., Böttcher M. (Dessau-Rosslau, Germany)
- P016 *Fatberg autopsy – an alternative specimen*
Hudson S., Hudson J. (Cambridge, United Kingdom)
- P017 *Phosphatidylethanol formation from endogenous phosphatidylcholines in animal tissues from pig, calf, and goat*
Luginbühl M., Willem S., Schürch S., Weinmann W. (Bern, Switzerland)
- P018 *Palmitic acid esters of tetrahydrocannabinol and 11-hydroxy-tetrahydrocannabinol – unsuccessful search for cannabis consumption markers in human body fluids and tissues*
Kraemer M., Broecker S., Diehl B.W.K., Madea B., Hess C. (Bonn, Germany)

- P019 *Uptake of model drugs in dentin – an in situ pilot study*
Klima M., Henkel K., Altenburger MJ., Kuaes MC., Auwärter V., Neukamm MA. (Freiburg, Germany)
- P020 *Oral fluid to blood concentration ratios of different drugs in simultaneously collected samples from suspected drugged drivers*
Bakke E., Høiseith G., Furuhaugen H., Arnestad M., Gjerde H. (Oslo, Norway)
- P021 *Illicit drug market in the province of Florence from 2006 to 2016*
 Vaiano F, Frati P., Palumbo D., Bigagli L., Mari F., Pascali J.P., Bertol E. (Florence, Italy)
- P022 *Internet pseudoscience: Testing opioid containing formulations with tampering potential*
Palumbo D., Fioravanti A., Pascali J.P., Fais P., Bertol E. (Florence, Italy)
- P023 *An LC-MS/MS method for drug testing in exhaled breath with a new simple sampling device*
 Seferaj S., Ullah S., Beck O. (Stockholm, Sweden)
- P024 *Long detection in hair of Zolpidem and Benzodiazepines in a victim of DFSA*
Petrella R., Carfora A., Cassandro P., Russello L., Borriello R. (Vanvitelli, Italy)
- P025 *A fast method for the analysis of cannabis metabolites with a 96-well plate*
Sjöberg U. (Stockholm, Sweden)
- P026 *Analytical strategy for the detection of helium intoxication: application to a case*
Dumestre-Toulet V., Hiquet J., Dubourg O., Christin E., Fougas J., Gromb-Monnoyeur S., Augsburg M., Varlet V. (Bordeaux, France)
- P027 *Performance evaluation of the on-site oral fluid drug screening device »DrugCheck 3000« in clinical environment*
Zorec Karlovsek M., Boettcher M., Wuske T., Steinmeyer S. (Dessau, Germany)
- P028 *Evaluation of simplified workflow for hair matrix extraction prior to LC-MS/MS analysis*
 Williams L., Teehan K.J., Jones R., Senior A., Lodder H., Davies G., Edgington A., Jordan S., Desbrow C., Roberts P. (Hengoed, UK)
- P029 *Rapid analysis of solid and liquid samples by direct introduction with triple quadrupole - gas chromatography*
Martin R., van't Slot G. (Bremen, Germany)
- P030 *Placental and umbilical cord disposition of methadone and EDDP of two mothers who delivered a stillbirth*
Montanari E., Natanti A., Candelaresi B., Busardò F.P., Giorgetti R. (Ancona, Italy)
- P031 *Liquid Chromatography Quadrupole Time of Flight Mass Spectrometry as a diagnostic tool in clinical toxicology*
 Fossan KO., Berg JA., Serkland T., Schjøtt J., Riedel B. (Bergen, Norway)
- P032 *Let-7b-3p in abuse of 3,4-methylenedioxymethamphetamine*
 Demirel G., Güzel E., Erol Öztürk Y., Yurdun T. (Istanbul, Turkey)

- P033 *Determination of methadone and its metabolite EDDP in oral fluid using the dried saliva spot sampling approach and gas chromatography-tandem mass spectrometry*
Ribeiro A., Prata, M., Vaz C., Rosado T., Restolho J., Barroso M., Araújo A.R.T.S., Gallardo E. (Lisbon, Portugal)
- P035 *Ultra-high performance liquid chromatography tandem mass spectrometry (UHPLC- MS/MS) for determination of GHB in breastmilk and blood of a nursing mother under sodium oxybate treatment for narcolepsy*
Mannocchi G., Tittarelli R., Pantano F., Graziano S., Umani Ronchi F., Busardò F.P., Pichini S., Marinelli E. (Rome, Italy)
- P036 *Analytical and clinical validation of a method for the determination of paclitaxel in dried blood spot by liquid chromatography coupled to tandem mass spectrometry*
Andriguetti N.B., Hahn R.Z., Feltraco L.L., Raymundo S., Da Costa J.L., Da Cunha K., Schwartzmann G., Antunes M.V., Linden R. (Novo Hamburgo-RS, Brazil)
- P038 *Comparison of five different extraction solvents for analysis of illicit drugs in dried blood spots*
Kacargil ÇU., Dağlıoğlu N., Gören İS. (Adana, Turkey)
- P039 *Sensitive determination of 5 alkyl nitrites and their metabolites in human whole blood and hair*
Meng L., Lian J., Zhu B.L. (Fuzhou, PR China)
- P040 *The toxicokinetics of fenpropathrin and its metabolites in poisoning dogs*
Chao Z., Zheng F., Fu S., Liu Y., Cong B., Yun K. (Taiyuan, China)
- P041 *The stability of Somedon and its metabolites in dried blood spots (DBS)*
Yu M., Zhou H., Chang K., Zhang F., Chen J., Yang R., Huang B., Yun K., Wei Z. (Taiyuan, China)

Drugs and Driving

- P050 *Detecting alcohol impairment in Brazil: consistencies and discrepancies between signs and symptoms versus breathalyzer results*
Scherer J.N., Roglio V.S., Leturiondo G., Schuch, J., Limberger R., Sousa, T., Pechansky F. (Porto Alegre, Brazil)
- P051 *Rapid drinking = rapid drunkenness: Does a fast alcohol uptake induce a rapid increase of ethanol concentration in blood?*
Gessner L., Isa M., Andresen-Streichert H., Rothschild MA., Juebner M. (Cologne, Germany)
- P053 *Stability of ethanol's non-oxidative metabolites in dried blood spots*
Wang H., Li J., Lin Z., Huang Z., Rao Y. (Shanghai, China)
- P054 *Method for the determination of selected antihistamine drugs in blood*
Gieroń J., Adamowicz P., Suchan M., Lechowicz W. (Krakow, Poland)

Monday 27 August 2018

- P055 *Alcohol consumption or contamination: a preliminary study on ethanol origins determination in oral fluids by stable carbon isotope analysis*
Chen H., Xiang P., Shen M. (Shanghai, China)
- P056 *A sensitive GC-MS-MS method for the detection of THC and THCA in whole blood of drivers in Ireland*
McCarthy S., O'Connell S., Morgan C., Kearns H., Cusack D., Maguire R. (Belfield, Ireland)
- P057 *Coca alkaloids profile in oral fluid from people chewing coca leaves and drinking coca tea*
Rubio N.C., Bermejo-Barrera P., Bermejo AM., Moreda-Piñeiro A. (Santiago de Compostela, Spain)
- P058 *Method development for the analysis of substances relevant to § 24a (2) of the German road traffic act using LC-MSn*
Ehrhardt F., Auwärter V., Kempf J. (Freiburg, Germany)
- P059 *The increasing use of gamma-hydroxybutyrate (GHB) amongst impaired drivers in Victoria, Australia*
George N., Glowacki L., Gerostamoulos D., Kotsos A., Di Rago M., McGillian T. (Victoria, Australia)
- P060 *Inter-laboratory proficiency scheme for the determination of blood alcohol concentration (BAC) with forensic purposes: an Italian experience*
Zamengo L., Tedeschi G., Frison G., Jones AW., Griffoni C., Ponzin M. (Venice, Italy)
- P061 *A new sample preparation approach for routine liquid chromatography-tandem mass spectrometry measurement of the alcohol biomarker phosphatidylethanol and its main isoforms in blood*
Casati S., Ravelli A., Angeli I., Minoli M., Orioli M. (Milan, Italy)
- P062 *Use of alcohol by traffic accident victims attended in emergency rooms in Clinics Hospital, São Paulo, Brazil: a pilot study*
Bombana H.S., Leyton V., Dias A.F.M.G., Greve J.M.A., Alves P.H.F., Andreuccetti G., Muñoz D.R. (Sao Paulo, Brazil)
- P063 *Optimization of Cloned Enzyme Donor Immunoassay for drugs of abuse in whole blood of 4,200 drivers involved in road accidents*
Pelletti G., Garagnani M., Barone R., Roffi R., Rossi F., Pelotti S. (Bologna, Italy)
- P064 *Cannabinoids quantification in human blood by supported liquid extraction and ultra high performance chromatography tandem mass spectrometry - application on driving under influence cases*
Strahm E., Perriraz S., Gogniat A., Dubugnon L. (Lausanne, Switzerland)
- P065 *Drug use among motorcycle riders in two Brazilian regions: a pilot study*
Sinagawa D.M., de Souza A.A.M., Silva R.D.A., Soares E.P., Magalhães A.P.N., Cypriano K.M., Yonamine M., Leyton V. (Sao Paulo, Brazil)

Monday 27 August 2018

- P066 *Benzodiazepines and Z drugs in drivers involved in road traffic accidents in Italy. Considerations on blood concentrations, therapeutic ranges and impairing limits*
Visentin S., Snenghi R., Stocchero G., Vogliardi S., Nalesso A., Montisci M., Favretto D. (Padova, Italy)
- P067 *Elderly drivers convicted of driving under influence of alcohol: a limited subgroup but at great risk*
Centola C., Giorgetti R., Pirani E., Giacchetta I., Tagliabracci A. (Torrette - Ancona, Italy)
- P068 *Study on the prevalence of use of prescribed medicines among truck drivers in Sao Paulo State highways*
Panizza H.N., Magalhães J.G., Pereira M.M., Bombana H.S., Rohlfes W.J.C., Muñoz D.R., Leyton V. (Sao Paulo, Brazil)
- P069 *Saliva drug testing in French drivers: choice of MS method influenced by swab collector effects*
Boyer J.C., Bertrand N., Basset F., Chataignier A., Lilamand L., Hertel F, Prat L., Reboul P. (Nîmes, France)

08h30

POST-MORTEM SESSION

Auditorium

Moderators: Nele Samyn & Dimitri Gerostamoulos

08h30 KN3

Keynote 3

Forensic toxicology- A pathologist's perspective

Noel Woodford (Victoria, Australia)

09h00 025

A multiple homicide with succinylcholine

van der Hulst R., Nunes-Roque J.L., Soerdjbalie-Maikoe V., Oosting R., Verschraagen M. (The Hague, The Netherlands)

09h11 026

Lethal injection of a castor bean extract: quantification of ricinine as a marker for ricin exposure using a simple fully validated LC-MS/MS method

Verougstraete N., Deprez C., Casier I., Helsloot D., Heylen O., Croes K. (Kortrijk, Belgium)

09h22 027

Systematic study on time-dependent postmortem redistribution of benzodiazepines

Brockbals L., Staeheli S.N., Gascho, D., Ebert L.C., Kraemer T., Steuer A.E. (Zurich, Switzerland)

09h33 028

Determining the prevalence and concentrations of pregabalin in coroners' cases in London (UK) and surrounding areas

Nahar L., Paterson S. (London, United Kingdom)

09h44 029

Stability of benzodiazepines in dried blood spots in postmortem cases

Moretti M., Freni F., Visonà S.D., Tomaciello I., Vignali C., Groppi A., Tajana L., Osculati A.M.M., Morini L. (Pavia, Italy)

09h55 030

Postmortem redistribution of transdermal fentanyl: Fast increase in the first hours after death

Reiter A., Anders S., Müller A., Otto B., Iwersen-Bergmann S., Falckenberg M., Andresen-Streichert H. (Hamburg, Germany)

10h06 031

Activity-based detection and bioanalytical confirmation of a fatal carfentanil intoxication

Ambach L., Cannaert A., Blanckaert P., Stove C. (Ghent, Belgium)

10h20

Coffee & Tea

10h50 032

Postmortem redistribution of JWH-210, RCS-4, and THC in pigs following pulmonary administration

Schaefer N., Kroell A.-K., Koerbel C., Laschke M.W., Menger M.D., Maurer H.H., Meyer M.R., Schmidt P.H. (Homburg, Germany)

11h01 033

Etizolam: data review for Scottish post-mortem cases over a four-year time period

McKeown D.A., Torrance H.J. (Glasgow, United Kingdom)

Tuesday 28 August 2018

- 11h12 034 *Polypharmacy in postmortem cases involving fentanyl and heroin*
Kacinko S.K., Logan B.K. (Willow Grove, Pennsylvania, USA)
- 11h23 035 *Death following consumption of MDAl and EAPB*
Deville M., Dubois N., Cieckiewicz E., Lemaire E., Charlier C. (Liège, Belgium)
- 11h34 036 *MDPHP associated with heroin use and "monkey dust": another new psychoactive substance of interest?*
Elliott S., Smith C. (Malvern, United Kingdom)
- 11h45 037 *A deadly combination - a series of deaths in Victoria linked to 25C-NBOMe and 4-fluoroamphetamine*
Di Rago M., Yap S., Crump K., Glowacki L., Lynch M., Gerostamoulos D., Woodford N., (Melbourne, Australia)
- 11h56 038 *The changing pattern of synthetic cannabinoid detection between April 2014 and April 2017 in the UK*
Smith P., Hudson S., Chong G.X., Hikin L., Morley S.R. (Leicester, United Kingdom)
- 12h07 039 *Metabolite profiling of methoxyacetylfentanyl in pooled human hepatocytes and quantitation in biological samples from a postmortem forensic case*
Mardal M., Johansen S.S., Davidsen A.B., Dalsgaard P.W., Linnet K. (Copenhagen, Denmark)
- 12h20-14h00 *Lunch*

Flash Poster Presentations

13h05 - 13h50 Post-Mortem & NPS
13h05 - 13h50 NPS

Van der Goes
Hubert van Eyck

13h05 Post-Mortem & NPS
Moderator: Elisabetta Bertol

Van der Goes

- 13h05 P071 *NPS: limited information, numerous compounds... The use of NMR to solve a complex case involving 7 powders*
Ameline A., Garnier D., Gheddar L., Richeval C., Gaulier J.M., Raul J.S., Kintz P. (Strasbourg, France)
- 13h10 P072 *Tissue iron content: a useful postmortem marker of alcoholism?*
Paulke A., Söhling N., Held H., Wurglics M., Skopp G., Toennes S.W. (Frankfurt/Main, Germany)
- 13h15 P073 *Using simulations to investigate the potential cardiotoxic effect of methadone*
Reuss C., Jornil J., Hasselstrøm J., Polak S. (Aarhus, Denmark)

Tuesday 28 August 2018

- 13h20 P074 *Determination of 3-fluorofentanyl and furanylfentanyl in hair by LC-MS/MS and LC-HRMS following an overdose*
Larabi I.A., Fabresse N., Etting I., Martin M., Abe E., Edel Y., Pfau G., Alvarez J.C. (Garches, France)
- 13h25 P075 *Pesticide fatalities admitted to Salt River Mortuary in Cape Town, South Africa: A five-year investigation*
Patience M., Davies B. (Cape Town, South Africa)
- 12h30 P123 *Fast LC-MS/MS method for analysis of fentanyl and its analogs in seized blotter papers*
Barbosa L.M., Santos J.M., de Morais D.R., Nimtz A.V., Eberlin M.N., de Oliveira M.F., Costa J.L. (Campinas, São Paulo, Brazil)
- 13h35 P124 *'Border to Grave' surveillance of new psychoactive substances in New Zealand: The dramatic impact of AMB-FUBINACA*
Kappatos D., Johnson C., Ong R., Russell S., Zubkov O., McCarthy M. (Porirua, New Zealand)
- 12h40 P125 *In vitro blood brain barrier uptake of new psychoactive substances and classical drugs using liquid chromatography-tandem mass spectrometry and human brain endothelial cells*
Ahn S., In M., Kim H. (Seoul, Korea)
- 13h45 P126 *In vitro cytotoxicity screening of new psychoactive substances and other drugs of abuse*
Richter L.H.J., Beck A., Flockerzi V., Maurer H.H., Meyer M.R. (Homburg, Germany)

12h45

NPS

Hubert van Eyck

Moderator: Robert Kronstrand

- 13h05 P127 *In vitro drug-drug interactions of drugs of abuse: inhibition and stimulation of the human breast cancer resistance protein*
Wagmann L., Maurer H.H., Meyer M.R. (Homburg, Germany)
- 13h10 P128 *Identification of new psychoactive substances by X-ray diffraction*
Jurasek B., Huber S., Bartunek V., Babor M., Cejka J., Kuchar M. (Prague, Czech Republic)
- 13h15 P129 *Identification and quantification of synthetic cannabinoid 5F-ADB-PINACA and its predominant metabolites in an authentic human urine specimen*
Hasegawa K., Wurita A., Minakata K., Nozawa H., Yamagishi I., Watanabe K., Suzuki O. (Hamamatsu, Japan)
- 13h20 P130 *Detection of synthetic opioids using targeted and non-targeted screening approaches*
Pasin D., Klingberg J., Cawley A., Bidny S., Fu S. (Broadway, Australia)

- 13h25 P131 *Suspect and non-target screening workflows to investigate the in vitro and in vivo metabolism of the synthetic cannabinoid 5-Cl-THJ-018*
Mortelé O., Vervliet P., Gys C., Degreef M., Maudens K., Covaci A., van Nuijs A., Lai Foon Y. (Antwerp, Belgium)
- 13h30 P132 *Method validation and application of a liquid chromatography - high resolution mass spectrometry method for fentanyl and its analogues in urine*
Stephanson N., Rylski A., Ackehed G. (Stockholm, Sweden)
- 13h35 P134 *A case of U-47700 and flubromazepam intoxication: pharmacokinetic data*
Neukamm M.A., Auwärter V., Hermanns-Clausen M., Wilde M., Koch K. (Freiburg, Germany)
- 13h40 P173 *Synthetic Cannabinoid Receptor agonists (SCRAs): Enantiospecific synthesis, characterisation and metabolism*
McKenzie C., Antonides L.H., Brandon A.M., Sutcliffe O.B., Nic Daeid N. (Dundee, United Kingdom)

14h00 NPS SESSION

Auditorium

Moderators: Corinne Charlier & Hans Maurer

- 14h00 KN4 **Keynote 4**
Where are we with new psychoactive substances?
Michael Evans-Brown (Lisbon, Portugal)
- 14h30 O40 *Neurocognition and subjective experience following acute doses of the synthetic cannabinoid JWH-018: Responders versus non-responders*
Theunissen E.L., Hutten N.R.P.W., Mason N.L., Toennes S.W., Kuypers K.P.C., Ramaekers J.G. (Maastricht, The Netherlands)
- 14h41 O41 *In vitro metabolism of three phenethylamines 25D-NBOMe, 25E-NBOMe and 25N-NBOMe using microsomal and microbial models*
Grafinger K.E., Stahl K., Wilke A., König S., Weinmann W. (Bern, Switzerland)
- 14h52 O42 *Elucidation of metabolite structures of synthetic cannabinoid UR-144 by nuclear magnetic resonance (NMR) spectroscopy after fungal metabolism by *Cunninghamella elegans**
Watanabe S., Kuzhiumparambil U., Fu S. (Broadway, Australia)

Tuesday 28 August 2018

- 15h03 043 *Effects of N-ethylpentylone on locomotor activity and anxiety-like behavior in rats*
Li J., Tao X., Lin z., Huang Z., Zheng S., Zhang Y., Wang H., Rao Y. (Shanghai, China)
- 15h14 044 *Human phase I metabolism of the 7-azaindole derived synthetic cannabinoid 5F-MDMB-P7AICA*
Mogler L., Franz F., Halter S., Auwärter V. (Freiburg, Germany)
- 15h25 045 *1P-LSD – new designer hallucinogen or just a prodrug of LSD?*
Grumann C., Henkel K., Gangnus T., Stratford A., Brandt S.D., Passie T., Auwärter V. (Freiburg, Germany)
- 15h36 046 *Gas chromatography hyphenated with nitrogen chemiluminescence detection and quadrupole time-of-flight mass spectrometry: Dual detector for quantitative screening of 40 stimulant-type new psychoactive substances in urine and blood without using reference standards*
Mesihää S., Rasanen I., Pelander A., Ojanperä I. (Helsinki, Finland)
- 15h50 *Coffee & Tea*
- 16h20 047 *Identification of novel psychoactive substances 25B-NBOMe and 4-CMC in biological material using HPLC-Q-TOF-MS and their quantification in blood using UPLC-MS/MS in case of severe intoxications*
Wiergowski M., Aszyk J., Kaliszan M., Wilczewska K., Sein Anand J., Kot-Wasik A., Jankowski Z. (Gdansk, Poland)
- 16h31 048 *“Cat Food”: Identification and characterization of the new synthetic cathinone 4-CDC (4-CDMC)*
Huppertz L.M., Braukmüller S., Keller M., Luethi D., Liechti M.E., Grumann C., Fischmann S., Westphal F., Beike J., Auwärter V. (Freiburg, Germany)
- 16h42 049 *A novel activity-based concept to screen biological matrices for the presence of opiates and (synthetic) opioids*
Cannaert A., Vasudevan L., Friscia M., Mohr A., Wille S., Stove C. (Ghent and Brussels, Belgium)
- 16h53 050 *The synthetic cathinone methylenedioxypropylvalerone (MDPV) forms reactive metabolites*
Andresen Bergström M., Vikingsson S., Billing H., Green H., Kronstrand R., Wohlfarth A. (Gothenburg and Linköping, Sweden)
- 17h04 051 *It doesn't matter what you look like, it's what you do that counts: Activity-based bioassays for the detection of synthetic cannabinoid receptor agonists in serum*
Vandeputte M., Cannaert A., Hudson S., White J., Bundell M., Archer J., Wood D., Dargan P., Stove C. (Ghent, Belgium)
- 17h15 052 *Relationship between structure and metabolism of alicyclic fentanyl analogs*
Åstrand A., Töreskog A., Kronstrand R., Vikingsson S., Green H. (Linköping, Sweden)

Tuesday 28 August 2018

- 17h26 053 *Analytical quantification, intoxication case series, and pharmacological mechanism of action for N-ethylpentylone*
Costa J.L., Cunha K.F., Lanaro R., Cunha R.L., Walther D., Baumann M.H. (Campinas-SP, Brazil)
- 17h37 054 *MT-45, a synthetic opioid associated with skin and liver toxicity, produces reactive metabolites*
Wohlfarth A., Vikingsson S., Green H., Kronstrand R., Andresen Bergström M.
(Linköping, Sweden)
- 17h48 055 *Collaboration between UNODC and TIAFT –an early warning alert system for new and emerging NPS*
Gerostamoulos D., Elliott S., Chung H., Logan B.K., Tettey J., Crean C. (Victoria, Australia)



Scientific Posters

Minne Square

Post-Mortem

- P076 *Multiple drugs abuse lead to death: a case report*
Chang J., Zhang Y., Wang F., Wang R., Ren X., Wang A., Dong L. (Beijing, China)
- P077 *Stability studies in biological fluids during post-analysis custody. II. Opiate compounds derived from heroin consumption*
Huertas T., Jurado C., Soriano T., Salguero M. (Sevilla, Spain)
- P078 *Stomach content for toxicological analysis: The clean-up problem.*
Peres M.D., Nascimento S., Pelição F.S. (Vitória, Brazil)
- P079 *The increasing use and abuse of Tapentadol and its incorporation into a validated quantitative method*
Nash C., Partridge E., Teoh E., Scott T., Charlwood C., Kostakis C. (Bedford Park, Australia)
- P080 *Utility of forensic radiology and determination of intracavicular gases composition for diving fatalities diagnosis*
Varlet V., Dominguez A., Augsburg M., Lossois M., Egger C., Palmiere C., Vilarino R., Grabherr S. (Lausanne, Switzerland)
- P081 *eGFR levels determined from vitreous creatinine in post mortem cases*
Maskell P.D., Penney E., Smith P.R., Morley S.R. (Dundee, United Kingdom)
- P082 *Diabetic ketoacidosis accompanied by hypothermia*
Evain F., Augsburger M., Palmiere C. (Geneva, Switzerland)
- P083 *Synovial fluid as an alternative biological matrix for the determination of opiates and cocaine*
Petrochilou E., Athanaselis S., Nikolaou P., Papadodima S., Katsos C., Panderi I., Papoutsis I. (Athens, Greece)
- P084 *Determination of antihypertensive drugs in blood samples by LC-MS/MS. Retrospective data of two years of routine analysis*
Proença P., Nisa L., Monteiro C., Franco JM., Corte-Real F. (Coimbra Portugal)
- P085 *A UHPLC-MS/MS method for the detection and quantification of 84 drugs of abuse and pharmaceuticals in human blood*
Orfanidis A., Gika H., Theodoridis G., Mastrogianni O., Raikos N. (Thessaloniki, Greece)
- P086 *Prescription drugs in fatal accidents – prescribed or not?*
Wieslander H., Jönsson A.K., Ahlner J. (Linköping, Sweden)

Tuesday 28 August 2018

- P087 *Fatal inhalation of volcanic gases due to the fall into a pothole suddenly formed in a volcanic area*
Carfora A., Cassandro P., Campobasso C., La Sala F., Petrella R., Borriello R. (Napoli, Italy)
- P088 *Case report of four hypothermia deaths – the importance of biochemical assays to identify the cause of a death*
Moreau C., V. Alunni V., Flament E., Priez-Barallon C., Gaillard Y. (La Voulte-sur-Rhône, France)
- P089 *Metformin-postmortem fatal and non-fatal reference concentrations and possible risk factors*
Walz L., Jönsson A.K., Ahlner J., Östgren C.J., Druid H. (Stockholm and Linköping, Sweden)
- P090 *The heart blood/femoral blood drug concentration ratio as an indicator for recent ingestion of drugs*
Bosman I.J., Luthof K.J. (The Hague, The Netherlands)
- P091 *Illicit fentanyl intoxication: a case report*
Tarelho S., Stasyuk M., Castro A., Melo P., Sousa L., Teixeira H.M., Franco J.M. (Coimbra, Portugal)
- P092 *Interactions between tramadol and selective serotonin reuptake inhibitors antidepressants in post-mortem cases*
Fonseca S., Franco J. (Lisbon, Portugal)
- P093 *Two suicide cases by phenobarbital intoxication*
Melo P., Costa P., Quintas M.J., Sousa L., Castro A., Tarelho S., Franco J.M., Teixeira H.M. (Coimbra, Portugal)
- P094 *Tissue distribution of diethyl ether in a case of acute intoxication after oral ingestion*
Coopman V., Van Parys G., De Leeuw M., Cordonnier J. (Bruges, Belgium)
- P095 *Determination of acetone and 2-propanol by HS-GC/FID. Application in forensic cases*
Monteiro C., Proença P., Claro A., Frias E., Corte-Real F. (Coimbra, Portugal)
- P096 *Can measurements of heroin metabolites in post-mortem matrices other than peripheral blood indicate if death was rapid or delayed?*
Thaulow C.H., Øiestad Å.M.L., Rogde S., Andersen J.M., Høiseith G., Handal M., Mørland J., Vindenes V. (Oslo, Norway)
- P097 *Post-mortem toxicology in young sudden cardiac death victims in the Balearic Islands, Spain*
Ripoll T., García A.B., Poncela J.L., Gutiérrez G., Pérez C., García E., Hernández E., Socías L., Gomila I., Barceló B. (Palma de Mallorca, Spain)
- P098 *Methoxyacetylfentanyl in two fatal poisonings and identification of the in vivo main metabolites*
Andreasen M.F., Telving R., Øiestad Å.M.L., Bergh M.S., Rosendal I., Jornil J.R., Larsen M.K., Nielsen T.S., Hasselstrøm J.B. (Aarhus, Denmark)
- P099 *Gabapentin concentrations in adult post-mortem blood during 2016*
Smith P., Khanna A., Hikin L., Morley SR. (Leicester, United Kingdom)

Tuesday 28 August 2018

- P100 *Pregabalin concentrations in post-mortem blood during 2016*
Smith P., Cormack J.D., Hikin L., Morley S.R. (Leicester, United Kingdom)
- P101 *Barbiturate overdoses*
Gebauerova V., Stankova M., Kurka P., Ihnat-Rudinska L., Smatanova M. (Ostrava, Czech Republic)
- P102 *Methadone and buprenorphine in different postmortem specimens*
Havig S.M., Øiestad Å.M.L., Thaulow C.H., Rogde S., Vindenes V. (Oslo, Norway)
- P103 *A family affair: a case of accidental methanol intoxications*
Beauchamp-Doré A., Faucher A.M., Desharnais B., Mireault P. (Montréal, Canada)
- P104 *Carbon monoxide poisoning: demonstrating the importance of controlled storage conditions*
Oliverio S., Zeka A., Leonardi G., Varlet V. (Lausanne, Switzerland and London, England)
- P105 *The presence of ethanol as a sole toxic and a potential cause of non-traumatic deaths*
Quintas M.J., Costa P., Melo P., Sousa L., Franco J.M., Teixeira H.M. (Coimbra, Portugal)
- P106 *Estimating a reliable cut-off point of 1-propanol in postmortem blood as marker of microbial ethanol production*
Boumba V.A., Kourkoumelis N., Velivasi G., Ziavrou K., Vougiouklakis T. (Ioannina, Greece)
- P107 *Analysis of amino acid in vitreous humor using liquid chromatography-mass spectrometry for post-mortem interval potential biomarker*
Kim S., Park J., Go A., Nam M., Chung H. (Daejeon, Korea)
- P108 *On the importance of updated analytical databases: a fatal fentanyl analogs intoxication case*
Lavallée C., Chan-Hosokawa A., Schwartz Z., Desharnais B., Mireault P. (Montréal, Canada)
- P109 *Stability of cocaine, benzoylecgonine, cocaethylene and norcocaine in real case postmortem blood samples using dried blood spots technique*
Pego A.M.E., Franco de Oliveira S.C.W.S.E., Franco de Oliveira T., Leyton V., Miziara I., Yonamine M. (Sao Paulo, Brazil)
- P110 *Fatal poisoning by Hemlock water dropwort roots (*Oenanthe crocata*)*
Costa S., Franco J., Barroso M., Carvalho S., Fonseca S. (Lisbon, Portugal)
- P111 *Acute thallium intoxication in a family*
Atanasov V., Minchev A., Boianova T., Arpadjan S. (Sofia, Bulgaria)
- P112 *A 3-year retrospective carbon monoxide intoxication study in Portugal*
Costa M., Simões da Silva B., Teixeira H.M., Corte Real F. (Coimbra, Portugal)

- P113 *Validation and implementation of an automated analytical procedure for the quantification of 28 pharmaceuticals and metabolites in post-mortem blood and brain tissue*
Nielsen M.K.K., Nedahl M., Johansen S.S., Linnet K. (Copenhagen, Denmark)
- P114 *Stability of propofol and fentanyl in decomposed biological specimens*
Mastrogianni O., Orfanidis A., Grosomanidis V., Krokos D., Tsakelidou E., Gika H., Raikos N. (Thessaloniki, Greece)
- P115 *Antemortem disposition and postmortem stability of JWH-210, RCS-4, and THC concentrations in pig adipose tissue following pulmonary administration*
Schaefer N., Kroell A-K., Koerbel C., Nordmeier F., Laschke M.W., Menger M.D., Maurer H.H., Meyer M.R., Schmidt P.H. (Homburg, Germany)
- P116 *Determination of CDT in non-conventional blood samples by HPLC with fluorescence detection*
Sorio D., Bertaso A., De Palio EF., Bortolotti F. (Verona, Italy)
- P117 *Importance of the analysis of ethyl alcohol in vitreous humor at the forensic level: study of the relationship between the detected levels of ethyl alcohol in blood and vitreous in post-mortem cases in Costa Rica*
Martínez Esquivel M.M.A. (Heredia, Costa Rica)
- P118 *Postmortem distribution of bromadiolone and its metabolites in poisoning death dogs*
Zhao D., Jia J., Wei Z., Liu Y., Cong B., Fu S., Li B., Zheng R., Yun K. (Taiyuan, China)
- P119 *Study on the postmortem diffusion of lidocaine and its metabolites MEGX and GX in dogs*
Jia J., Song W., Huang K., Wei Z., Fu S., Liu Y., Cong B., Zheng J., Yun K. (Taiyuan, China)
- P120 *The post-mortem distribution and the effect of burial period, material and season on the degradation of Methamidophos in bodies after exhumation*
Wei Z., Jia J., Qiao J., Xiao K., Sun Q., Wang Y., Jia J., Cao J., An J., Yun K., Fu S. (Taiyuan, China)
- P121 *The postmortem distribution of alcohol and its metabolites (EtG, EtS, and FAEs) in alcohol poisoning death rabbits*
Feng Y., Lu Y., Wei Z., Liu Y., Cong B., Fu S., Ren X., Zheng R., Yun K. (Taiyuan, China)

NPS

- P136 *Sensitive screening for new psychoactive substances in human urine by GC-MS*
Schaaf L., Gerhards P., de Dobbeleer I. (Dreieich, Germany)
- P137 *Influence of sampling strategies for drug analysis of used syringes content performed by general unknown screening on gas chromatography-mass spectrometry*
Lefrançois E., Augsburger M., Esseiva P. (Lausanne, Switzerland)

Tuesday 28 August 2018

- P138 *Stability of synthetic cathinones in biological material*
Adamowicz P., Malczyk A. (Krakow, Poland)
- P139 *Metabolism of the synthetic cannabinoids ω -Chloro-,Bromo, and-Iodo-JWH-122 in suspended rat- and pooled human hepatocytes*
Daidsen A.B., Mardal M., Linnet K. (Copenhagen, Denmark)
- P140 *Neuro hitmen: neurotoxicity of psychoactive synthetic cathinones*
Leong H.S., Philp M., Simone M., Witting P.K., Fu S. (Sydney, Australia)
- P141 *Severe intoxication by 25I-NBOMe confirmed by gas chromatography - tandem mass spectrometry analysis in serum*
Lanaro R., Cunha K.F., Morais D.R., Costa J.L. (Campinas-SP, Brazil)
- P142 *Different sources from which information was obtained on new psychotropic substances that were consumed in Uruguay*
Umpierrez, E.F. (Pando, Uruguay)
- P143 *Expanding the scope without stretching the budget: Detection of new designer benzodiazepines with nal von minden Benzodiazepine Drug-Screen® Rapid Tests*
Button J., Johansen J., Beer D., Zander T. (Ticehurst, United Kingdom)
- P145 *Ultra-fast characterization of novel synthetic opioids using a data-independent acquisition analytical workflow*
Morla A., Cabrices O., Wang A., He X., McCall H., Baker L., Taylor A., Krotulski A., Fiorentin T., Logan B. (Redwood City, CA, USA)
- P146 *Study of the in vitro and in vivo metabolism of 4-HO-MET*
Grafinger K.E., Bruni P.S., Nussbaumer S., König S., Schürch S., Weinmann W. (Bern, Switzerland)
- P147 *MDMB-CHMCZCA displays remarkable properties: CB1 activation and CB2 blockade*
Hess C., Schoeder C., Madea B., Muller C. (Bonn, Germany)
- P148 *Simultaneous determination and quantitation of 7 synthetic cathinones in postmortem blood and urine by LC-MS/MS*
Tsao Y., Liu H., Liu R.H., Lin D. (Taipei, Taiwan)
- P149 *Analysis on the toxic reaction and pathological changes of benzylpiperazine in mice*
Zhu B., Meng L. (Fujian Fuzhou, China)
- P150 *Analytical approach to determine new psychoactive substances in whole blood using solid phase extraction and gas chromatography-mass spectrometry*
Almeida P., Castanheira A., Corte Real F., Gallardo E., Margalho C. (Coimbra, Portugal)

- P151 *Screening and quantitative analyses of new psychoactive substances in 11 emergency/fatal cases using UPLC-Q-TOFMS coupled with ion mobility separation*
Kikura-Hanajiri R., Kawamura M., Hakamatsuka T. (Kanagawa, Japan)
- P152 *Trends in cannabinoid drugs abuse in young Israeli population: 2010-2017*
Tepperberg M., Rotenberg M. (Ramat-Gan, Israel)
- P153 *Method validation for the detection and quantitation of 19 synthetic cannabinoids in whole blood using liquid chromatography-tandem mass spectrometry following supported liquid extraction*
Foley S., Lee D., McGowan C., Moore K., Bynum N., Botch-Jones S. (Boston, MA, USA)
- P154 *Monitoring of the internet market for synthetic cannabinoids – Are there specific effects related to the German law on new psychoactive substances (NpSG)?*
Halter S., Angerer V., Auwärter V. (Freiburg, Germany)
- P155 *Quantification of herbal mixtures containing the synthetic cannabinoid Cumyl-PEGACLONE – is inhomogeneity of distribution of the active compound still an issue?*
Halter S., Auwärter V. (Freiburg, Germany)
- P156 *Severe intoxication after uptake of alleged ecstasy tablets adulterated with the synthetic cannabinoid ADB-PINACA - a case report*
Peter R., Halter S., Auwärter V., Jacobsen-Bauer A., Kempf J. (Aalen and Freiburg, Germany)
- P157 *Effects of amphetamine-related new psychoactive substances on the release of dopamine and serotonin*
Minjeong K., Chae Ha Y., Yong-Sup L., Choon-Gon J., Seikwan O., Sooyeun L. (Seoul, Republic of Korea)
- P158 *Development of a mass spectral library for new psychoactive substances using LC-QTOF-MS*
Jang W-J., Kim S., Lee YS., Jang J-H., Park B., Seo YH., Jeong C-H., Lee S. (Daegu, Republic of Korea)
- P159 *Two Chemsex fatalities related to GHB and NPS consumption*
Soriano I., Bueno J., Olano D., Rodríguez IM., Jurado C., Salguero M. (Sevilla, Spain)
- P160 *Stability of mephedrone and five of its phase I metabolites in human whole blood*
Czerwinska J., Dargan P., Parkin M., Kicman A., Abbate V. (London, United Kingdom)
- P161 *Synthetic cannabinoids in prisons – invisibly impregnated paper sheets as a Trojan horse*
Angerer V., Möller C., Auwärter V. (Freiburg, Germany)
- P162 *1,4-butanediol intoxication: a case report*
Castro A., Tarelho S., Dias A.S., Melo P., Teixeira H.M., Franco J.M. (Coimbra, Portugal)
- P163 *Rapid and profound intoxication associated with the Use of 5F-ADB in New Zealand*
Kappatos D., Johnson C., Colgate A., Ong R., Russell S., Zubkov O., McCarthy M., Quigley P. (Porirua, New Zealand)

Tuesday 28 August 2018

- P164 *Determination of synthetic cathinones in neonatal meconium*
Nemeskalova A., Bursova M., Hajkova K., Jurasek B., Hlozek T., Sykora D., Kuchar M. (Prague, Czech Republic)
- P165 *A cautionary tale – synthetic cannabinoid metabolites can potentially cause false positives during targeted LC/MS/MS analysis*
Griffiths A., Edser A., Scuderi G., Hadley L. (Queensland, Australia)
- P166 *In silico modeling to predict fatal blood concentrations of drugs (preliminary study)*
Saka K., Kudo K., Makino Y., Ikeda N., Iwase H. (Tokyo, Japan)
- P167 *Identification and characterization of the new designer benzodiazepines bromazolam, flualprazolam and fluclozepam*
Wilde M., Sommer M., Auwärter V. (Freiburg, Germany)
- P168 *Beyond LSD: In vivo and in vitro metabolism of the new psychoactive substances ALD-52 & 1B-LSD and their detectability in rat urine studied by hyphenated mass spectrometry*
Wagmann L., Wack F., Pettersson Bergstrand M., Brandt S.D., Stratford A., Maurer H.H., Meyer M.R. (Homburg, Germany)
- P169 *Synthesis, analytical characterization and monoamine transporter activity of the new psychoactive substance 4-methylphenmetrazine (4-MPM), with differentiation from its ortho- and meta- positional isomers*
McLaughlin G., Baumann M.H., Kavanagh P.V., Morris N., Power J.D., Dowling G., Twamley B., O'Brien J., Hessman G., Westphal F., Walther D., Brandt S.D. (Dublin and Sligo, Ireland)
- P170 *Analytical characterization of the designer drug 4-fluoromethamphetamine (4F-MPH) in a powdered product and its quantitation in blood and urine samples following an intoxication case*
Papa P., Vecchio S., Valli A., Di Tuccio M., Lonati D., Locatelli C.A., Zancanaro F., Frison G. (Venice, Italy)
- P171 *Prevalence of New Psychoactive Substances in oral fluid specimens from French and Belgian drivers: comparison 2016/2017*
Richeval C., Nachon-Phanithavong M., Di Fazio V., Wiart J.-M., Humbert L., Samyn N., Wille S.M.R., Allorge D., Gaulier J.-M., (Lille, France)
- P172 *Relevance of metabolite identification to improve detection of new synthetic opioid intoxications*
Gaulier J.-M., Richeval C., Romeuf L., Allorge D., Gaillard Y. (Lille, France)
- P173 *Synthetic Cannabinoid Receptor agonists (SCRAs): Enantiospecific synthesis, characterisation and metabolism*
McKenzie C., Antonides L.H., Brandon A.M., Sutcliffe O.B., Nic Daeid N. (Dundee, United Kingdom)
- P174 *A street market dissociative anaesthetics – deschloroketamine*
Hajkova K., Jurasek B., Stefkova K., Sykora D., Palenicek T., Kuchar M. (Prague and Klecany, Czech Republic)

- P175 *Comprehensive multi-analytical screening of drugs of abuse, including new psychoactive substances, in urine with biochip arrays applied to the Evidence analyser*
Darragh J., Keery L., Keenan R., Stevenson C., Norney G., Benchikh M.E., Rodríguez M.L., McConnell R.I., FitzGerald S.P. (Co Antrim, United Kingdom)
- P176 *Impact of a new legislation in Germany on intoxications by new psychoactive substances*
Sommer M., Angerer V., Halter S., Auwärter V., Hermanns-Clausen M. (Freiburg, Germany)
- P177 *Detection of 48 new psychoactive substances in a single hair sample: a case report*
Fels H., Dame T., Skopp G., Musshoff F. (Munich, Germany)
- P178 *Consumption of new psychoactive substances during the electronic music festival*
Sutlovic D., Definis-Gojanovic M., Versic Bratincevic M. (Split, Croatia)
- P179 *Metabolism of psychoactive substances and emerging drug threats in a poly-drug abuse context*
Brandon A.M., Epemolu R.O., McKeown D.A., Read K.D., McKenzie C. (Dundee, United Kingdom)
- P180 *Current situation in illicit drugs in Latvia (2015-2017): fentanyl*
Volgram J., Khodasevitch T., Hodasevics L., Stirna A. (Riga, Latvia)
- P181 *A case of 5F-ADB / FUB-AMB usage: drug-induced or drug-related death?*
Ivanov I., Stoykova S., Ivanova E., Vlahova A., Burdzhiev N., Atanasov V. (Sofia, Bulgaria)
- P182 *Acute designer phenethylamine drug intoxication – a case report*
Stoykova S., Angelov J., Ivanov I., Atanasov V. (Sofia, Bulgaria)
- P183 *“Smart shop in vivo” – a case of intoxication associated with a mix of new psychoactive substances*
Tomczak E., Kata M., Woźniak M.K. (Gdańsk, Poland)
- P184 *The double face of Etizolam: NPS at high dosages and pharmaceutical at therapeutic concentrations*
Giorgetti R., Montanari E., Mauloni S., Giacchetta I., Busardò F. (Ancona, Italy)
- P185 *Analysis of drugs obtained from the “Darknet”*
Augsburger M. (Lausanne, Switzerland)
- P186 *Human phase I metabolism of the novel synthetic cannabinoid 5F-CUMYL-PEGACLONE*
Mogler L., Halter S., Auwärter V. (Freiburg, Germany)
- P187 *Blood cyanide determination in fatal CUMYL-4CN-BINACA intoxication cases by headspace GC-MS*
Erol Öztürk Y., Yeter O., Ates I., Evren Yavuz G., Aydın Altepe E., Yardımcoğlu P.B., Cıgman F.B., Demirel G., Yurdun T. (Istanbul, Turkey)

Tuesday 28 August 2018

P188 *A statistical analysis of a targeted operation to evaluate the illicit benzodiazepine tablet market in Scotland 2016-2017*

Southam D., Heron C., Service A., Nic Daeid N., Cole C., McKenzie C. (Dundee, United Kingdom)

P189 *Stability of synthetic cathinones – evidence from chemical synthesis*

Liu H., Gorovoy A., Johansen J.E. (Trondheim, Norway)

P190 *Deaths caused by new psychoactive substances in the expert's opinions for medico-legal purposes*

Rojek S., Kula K., Maciów-Głąb M., Romańczuk A., Kamil S., Kłys M. (Kraków, Poland)

SCIENTIFIC PROGRAM



08h30

SOCIETY OF HAIR TESTING (SOHT)

Auditorium

Moderators: Michel Yegles & Sys Stybe Johansen

- 08h30 KN5 **Keynote 5**
Hair testing, we need to talk!
Markus R. Baumgartner (Zurich, Switzerland)
- 09h00 O56 *Disappearance of tramadol and THC-COOH in hair after discontinuation of abuse. Two different profiles ...*
Kintz P., Ameline A., Gheddar L., Raul J.-S. (Oberhausbergen and Strasbourg, France)
- 09h11 O57 *Forensic drug hair analysis – how effective are decontamination procedures?*
Mantinié D., Gerostamoulos D., Wright P. (Victoria, Australia)
- 09h22 O58 *Influence of bleaching and perming on cannabinoid concentrations in hair*
Van Elsue N., Yegles M. (Dudelange, Luxembourg)
- 09h33 O59 *Multifactorial interpretation of chronic alcohol abuse biomarkers*
Vincenti M., Alladio E., Salomone A., Neocleous T., Biosa G., Własiuk P., Zadora G., Baumgartner R.M. (Turin, Italy)
- 09h44 O60 *The use of combined methods to identify colored or bleached hair in forensic routine*
Petzel-Witt S., Toennes S.W. (Frankfurt am Main, Germany)
- 09h55 O61 *Single hair analysis after single doses – preliminary results*
Wiedfeld C., Skopp G., Musshoff F. (Munich, Germany)
- 10h06 O62 *Systematic investigations of cortisol and cortisone in nails by a newly developed and validated LC-MS/MS procedure and correlation with hair*
Binz T.M., Voegel C.D., Hofmann M., Baumgartner M.R., Kraemer T. (Zurich, Switzerland)
- 10h20 *Coffee & Tea*
- 10h50 O63 *Distribution of common drugs of abuse, ethyl glucuronide and benzodiazepines in hair across the scalp*
Meier U., Imfeld S., Colledge F., Scheurer E., Merver-Chalmers-Bender K., Dussy F. (Basel, Switzerland)
- 11h01 O64 *Establishing a model for studying low concentrations of drugs in hair and transport processes of contaminant drugs into hair and vice versa during sample preparation using MALDI-MS and ToF-SIMS*
Erne R., Bernard L., Baumgartner M.R., Kraemer T. (Zurich, Switzerland)

Wednesday 29 August 2018

- 11h12 065 *Hair analysis of more than 100 families with drug consuming parents. Comparison between hair results from adults and their children*
Pragst E., Krumbiegel F., Thurmann D., Westendorf L., Methling M., Niebel A., Hartwig S. (Berlin, Germany)
- 11h23 066 *Oxidative hair treatment and its influence on 1H-pyrrole-2,3,5-tricarboxylic acid (PTCA) concentration and stability of drugs in hair*
Sporkert F., Kilchoer L., Dovat Sabatella M. (Lausanne-Geneva, Switzerland)
- 11h34 067 *Does in vitro cosmetical treatment influence cocaine metabolite concentrations in hair?*
Franz T., Skopp G., Jofer L., Schwarz G., Musshoff F. (Munich, Germany)
- 11h45 068 *Characterization of cocaine and its metabolites in single hair using matrix assisted laser desorption ionization-tandem mass spectrometry imaging and comparison with microarrays for mass spectrometry-matrix assisted laser desorption ionization-tandem mass spectrometry and liquid chromatography*
Kernalléguen A., Saint-Marcoux F., El Bakhi S., Vorspan F., Zenobi R., Léonetti G., Lafitte D., Pélissier- Alicot A-L. (Marseille, France)
- 11h56 069 *Hair analysis for discriminating voluntary doping vs inadvertent ingestion of the aromatase inhibitor Letrozole*
Favretto D., Vogliardi S., Pertile R., Tucci M., El Mazloum R., Snenghi R. (Padova, Italy)



08h30

ANALYTICAL SESSION

Auditorium

Moderators: Hee-Sun Chung & Olof Beck

- 08h30 KN6 **Keynote 6**
Evolution of peak capacity in pressure-driven separation techniques
Pat Sandra (Ghent, Belgium)
- 09h00 070 *Endogenous metabolites and their oxidation products - identified using a metabolomics-like approach - as useful markers for nitrite-mediated urine adulteration?*
Steuer A.E., Arnold K., Kamber D., Poetsch M., Kraemer T. (Zurich, Switzerland)
- 09h11 071 *Validation of validity parameters for urine analysis and prevalence of urine tampering in a 2-year cohort*
Wissenbach D.K., Kluge J., Rentsch L., Remane D., Peters F.T. (Jena, Germany)
- 09h22 072 *Fast and easy quantification of 40 antidepressants or their metabolites in plasma for therapeutic drug monitoring and forensic analysis*
Degreef M., van Nuijs A.L.N., Maudens K.E. (Antwerp, Belgium)
- 09h33 073 *Detection of a new fentanyl analogue in a clinical case with an LSD immunoassay*
Wilde M., Sommer M., Hermanns-Clausen M., Auwärter V. (Freiburg, Germany)
- 09h44 074 *Determination of cannabinoids in low-volume human whole blood samples by online extraction using turbulent flow chromatography and HRAM Orbitrap MS*
Zancanaro F., Tedeschi G., Frasson S., Frison G., De Nardi C., Bromirski M. (Venice, Italy)
- 09h55 075 *Analysis of hydroxy-cocaine metabolites as evidence of cocaine consumption: identification by parent ion search and quantitation by liquid chromatography-tandem mass spectrometry in hair sample*
Minoli M., Casati S., Ravelli A., Angeli I., Rota P., Allevi P., Orioli M. (Milan, Italy)
- 10h06 076 *A tool for automatic correction of endogenous concentrations: application to BHB and GHB analysis by LC-MS/MS and GC-MS*
Desharnais B., Laquerre J., Mireault P., Skinner C.D. (Montréal, Canada)
- 10h20 *Coffee & Tea*
- 10h50 077 *Modifier-assisted differential mobility-tandem mass spectrometry method for detection and quantification of drugs of abuse in urine*
Chen P.-S., Chen S.-H., Chen J.-H., Haung W.-H., Liu H.-T., Kong P.-H., Yang H.-Y. (Taipei, Taiwan)

Thursday 30 August 2018

- 11h01 078 *Development, validation and application of an LC-MS/MS method for the detection of non-heparin like antithrombotic drugs in serum and postmortem samples*
Remane D., Boeck J., Wissenbach D.K., Peters F.T. (Jena, Germany)
- 11h12 079 *Carbon monoxide (CO) poisoning: demonstrating the importance of the measurement of total CO in blood vs carboxyhemoglobin (COHb)*
Oliverio S., Zeka A., Leonardi G., Varlet V. (Lausanne, Switzerland and London, England)
- 11h23 080 *Ion mobility – the future of separation? Uses in the field of novel psychoactive*
Brombach D., Tellstroem V., Wallgren J., Dahlén J., Wu X., Konradsson P., Kronstrand R., Gréen H., Josefsson M., Vikingsson S. (Linköping, Sweden)
- 11h34 081 *Development of a sensitive untargeted LC-HRMS screening devoted to hair analysis through a shared MS2 spectra database*
Fabresse N., Larabi I.A., Stratton T., Mistrik R., Pfau G., Lorin de la Grandmaison G., Etting I., Grassin Delyle S., Alvarez J.-C. (Montigny le Bretonneux and Garches, France)
- 11h45 082 *Application of infrared spectrometry combined with chemometrics for the fast analysis of large drug seizures*
Eliaerts J., Meert N., Van Durme F., Samyn N., De Wael K., Dardenne P. (Brussels and Antwerp, Belgium)
- 11h56 083 *Molecular networking as a tool for new psychoactive substances metabolism exploration: application to a -methoxyphencyclidine intoxication case*
Allard S., Allard P.-M., Morel I., Gicquel T. (Rennes, France)
- 12h07 084 *Nano liquid chromatography-high-resolution mass spectrometry – an alternative also for small molecules?*
Caspar A.T., Meyer M.R., Westphal F., Weber A.A., Maurer H.H. (Homburg, Germany)
- 12h20-14h00 *Lunch*

Flash Poster Presentations

13h05 - 13h50 SoHT
13h05 - 13h50 Analytical

Van der Goes
Hubert van Eyck

13h05 SoHT

Van der Goes

Moderator: Maristela Andraus

- 13h05 P192 *Decrease of ethyl glucuronide concentrations after exposure to water*
Luginbühl M., Nussbaumer S., Weinmann W. (Bern, Switzerland)
- 13h10 P193 *Can human hair sampling be used as a proof of use of chemical weapons?*
Côte C., Piram A., Josse D., Lacoste A., Doumenq P. (Marseille, France)
- 13h15 P194 *Influence of bleaching and straightening on endogenous GHB in hair*
Ramírez Fernández M.M., Wille S.M.R., Di Fazio V., Samyn N. (Brussels, Belgium)
- 13h20 P195 *Prevalence of synthetic cannabinoids in hair samples of persons undergoing drug abstinence control programs for driving license regranting in the Eastern part of Switzerland*
Moosmann B., Beyer J., Wilde M., Auwärter V., Franz F. (St.Gallen, Switzerland)
- 13h25 P196 *External sources of ethyl glucuronide: analysis of alcoholic beverages*
Müller A., Iwersen-Bergmann S. (Hamburg-Eppendorf, Germany)
- 13h30 P197 *Controlled study of single dose intake of zopiclone in hair sampled at five different times*
Hansen S.L., Johansen S.S., Nielsen M.K.K., Nilsson G., Kronstrand R. (Copenhagen, Denmark)
- 13h35 P199 *Designer benzodiazepines are emerging from scalp*
Romain S., Klinger N., Cirimele V. (Strasbourg, France)
- 13h40 P200 *Detox shampoos for ethyl glucuronide in hair - more than just a scam*
Bekaert B., Luginbühl M., Weinmann W. (Ghent, Belgium)

13h05

Analytical

Hubert van Eyck

Moderator: Pascal Kintz

- 13h05 P229 *Metabolic study of the ergot alkaloids ergocristine, ergocryptine, human S9 fractions and equine liver preparations*
Rudolph W., Wissenbach D.K., Remane D., Peters F.T. (Jena, Germany)
- 13h10 P230 *Deep learning – creation of an artificial neural network for the prediction of data generated by high resolution mass spectrometry with data independent acquisition*
Elmiger M., Kraemer T. (Zurich, Switzerland)
- 13h15 P231 *Analytical strategy for screening and confirmation of fentanyl and related drugs in a high throughput environment*
Dawson G.B., Arends T., Njau B., Rana S. (Santa Rosa, USA)
- 13h20 P232 *Detection performance of hand-held Raman analyzer with 785 nm and 1064 nm excitation lasers against chemical warfare agents*
Seto Y., Hashimoto R., Taniguchi T., Ohrui Y., Kondo T., Ohmori T., Tsuge K., Otsuka M., Muta F., Taro Nogami T. (Kashiwa, Japan)
- 13h25 P233 *Application of COOH functionalized multi-wall carbon nanotube (COOH-MWCNT) in extraction of drugs in plasma*
Moon H., Park J., Choi B., Hwang J., Chung H. (Chungnam, Korea)
- 13h30 P234 *Investigation of condensates of smoked marijuana versus dabbing for detection of decarboxylation of THC-Acid A and lung availability of THC*
Vieten S., Hädener M., Weinmann W., Mahler H. (Bern, Switzerland)
- 13h35 P235 *Modification of QuEChERS method for extraction of drugs and pesticides in biological samples*
Imran M., Raza A., Shafi H., Wattoo S.A., Sarwar M., Tahir M.A. (Lahore, Pakistan)
- 13h40 P236 *Development and optimization of a filtration based radioligand binding assay to determine the cannabinoid receptor affinities for (S) and (R) MDMB-CHMICA*
Herzog J., Mogler L., Münster-Müller S., Hansen S., Pütz M., Auwärter V. (Villingen-Schwenningen and Freiburg, Germany)

14h00

DOPING SESSION

Auditorium

Moderators: Marilyn Huestis & Peter Van Eenoo

14h00 KN7

Keynote 7

Challenges and solutions concerning today's daily work in sports drug testing

Mario Thevis (Cologne/Bonn, Germany)

Thursday 30 August 2018

- 14h30 085 *Targeted and untargeted screening methods by gas chromatography-mass spectrometry for doping, forensic and toxicological purposes*
Polet M., Van Gansbeke W., Van Eenoo P. (Ghent, Belgium)
- 14h41 086 *Urinary detection of short- and long acting human insulin analogues in the framework of doping control*
Judak P., Van Eenoo P., Deventer K. (Ghent, Belgium)
- 14h52 087 *Overview on the black market of doping drugs: an Italian perspective*
Odoardi S., Mestria S., Valentini V., Strano Rossi S. (Rome, Italy)
- 15h03 088 *Testosterone detection in forensic toxicology*
Lood Y., Ahlner J., Aardal-Eriksson E. (Linköping, Sweden)
- 15h14 089 *Facing the problem of New Psychoactive Substances for doping control analysis*
Olesti E., Fabregat-Safont D., Ibañez M., Sancho J.V., Hernández F., Pascual, J.A., de la Torre R., Pozo Ó.J. (Barcelona, Spain)
- 15h25 *Coffee & Tea*

Scientific Posters

Minne Square

SoHT

- P201 *The quantitation of cocaine, benzoylecgonine, norcocaine and anhydroecgonine methyl ester in the human finger and toenail samples by LC/MS/MS and determining the dispersion percentage of the metabolites for the confirmation of abuse*
Breidi S.E., Meacham C., Cirimele V., Nicholson D. (Frome, United Kingdom)
- P202 *The study of metabolite-to-parent drug ratios in chronic S-methamphetamine abusers' head hair*
Xiang P., Shen M., Wang T. (Shanghai, China)
- P203 *Picogram detection of the marijuana metabolite THC-COOH in hair samples using an efficient and sensitive LC-MS/MS analysis workflow*
Morla A., Cabrices O., Wang A., He X., Taylor A. (Redwood City, CA, USA)
- P204 *The quantitative detection of trace native cannabinoids and their metabolites in hair extracts using Atmospheric Pressure Gas Chromatography with Tandem Quadrupole Mass Spectrometry (APGC-MS)*
Starkie V., Douce D., Jones R., Khan K., Lee R. (Cheshire, United Kingdom)
- P205 *Is 5-hydroxytryptophol (5-HTOL) glucuronide in hair a potential alcohol misuse indicator? A comparison with ethyl glucuronide*
Varlet V., Augsburger M. (Lausanne, Switzerland)
- P206 *Prevalence of cocaine adulterant tetramisole (levamisole/dexamisole) in hair and seized cocaine samples*
Madry M.M., Widmer R., Baumgartner M.R. (Zurich, Switzerland)
- P207 *Hair EtG: Reduced segment levels accompanying hair growth*
Fosen J.T., Høiseith G., Sempio C., Giarratana N., Enger A., Mørland J., Morini L. (Oslo, Norway)
- P208 *The method for the washing of hair*
Chang J., Zhang, Y., Yu Z., Wang R., Zou B., Song G., Wei C. (Beijing, China)
- P209 *Identification of predictive biomarkers for methamphetamine addiction*
Song S.H., Jang W.J., Hwang J.H., Lee S.Y., Jeong C.H. (Daegu, Republic of Korea)
- P210 *Intra-individual variation of endogenous levels of GHB in hair*
Martz W., Nebel A., Veit F. (Giessen, Germany)
- P211 *Discrimination between chewing of coca leaves or drinking of coca tea and smoking of "paco" (coca paste) by hair analysis. A study of possibilities and limitations*
Rubio N.C., Krumbiegel F., Thurmann D., Nagel A., Aranguren M., Gorlelo J.C., Poliansky N., Pragst, F. (Patagonia, Argentina)

- P212 *Selective determination of methamphetamine and amphetamine in hair using hybrid solid-phase extraction and gas chromatography-mass spectrometry*
Kwon N., Lee Y., Kim H., Cheong J., Kim J. (Seoul, Korea)
- P213 *Simultaneous determination of 76 abuse drugs and metabolites in human hair samples using liquid chromatography-tandem mass spectrometry*
Lee J., Jeong J., Kong T., Lee H. (Seoul, Korea)
- P214 *Distribution of ketamine and norketamine concentration in hair samples of drug abusers*
Rhee J., Lee J., Kim J., Jang M., Shin I., Chang H. (Busan, Korea)
- P215 *A novel single-step GC-MS/MS method for cannabinoids and 11-OH-THC metabolite analysis in hair*
Angeli I., Casati S., Ravelli A., Minoli M., Del Fabbro M., Orioli M. (Milan, Italy)
- P216 *Method validation for ketamine/norketamine determination in hair samples. Application to forensic samples*
Matey J.M., Moreno de Simon M.D., Garcia-Ruiz C., Montalvo G. (Madrid, Spain)
- P217 *Detection of 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid in hair via selective dual inlet gas chromatography tandem mass spectrometry*
Chan S.J., Peh P.C., Moy H.Y., Lui C.P. (Singapore, Singapore)
- P218 *Prevalence of drugs of abuse in hair of selected population from license renewal cases*
Mestria S., Odoardi S., Valentini V., De Giovanni N., Cerabino L. M., Iaria S., Di Pietro D., Strano Rossi S. (Rome, Italy)
- P219 *Microextraction by packed sorbent as a new approach for sample clean-up in hair analysis for opiates*
Rosado T., Gallardo E., Vieira D.N., Barroso M. (Lisbon, Portugal)
- P220 *Alcohol consumption assessment in 975 university students through combined hair analysis for ethyl glucuronide and ethyl palmitate*
Oppolzer D., Santos C., Passarinha L., Gallardo E., Barroso M. (Lisbon, Portugal)
- P221 *JWH isomers in hair: characterization and localization using matrix assisted laser desorption ionisation-MSn imaging*
Kernalléguen A., Enjalbal C., Léonetti G., Lafitte D., Pélissier-Alicot A-L. (Marseille, France)
- P222 *Preliminary study on use of ionic liquids in drugs extraction from keratin matrix*
Stefanelli F., Gambini A., Nardone F., Melai B., Del Grande C., Caruso D., Cambiali E., Della Vecchia A., Dell'Osso L., Chericoni S. (Pisa, Italy)
- P223 *Longitudinal analysis for trace elements into hair*
Augsburger M., Villa M., Thomas A. (Geneva, Switzerland)

- P224 *Hair testing in Brazil for granting and renewing professional driver's licence: an expensive and ineffective DUI strategy*
Leyton V., Andreuccetti G., Ponce J.C., Montal J.H.C., Adura F.E., Meira Jr. A.E.S., Souza A.A.M., Walls H.C., Filonzi M.S., Yonamine M. (Sao Paulo, Brazil)
- P225 *Optimized conditions for simultaneous determination of betel nut alkaloids and tobacco alkaloids in hair using liquid chromatography tandem mass spectrometry*
Chen H.C., Chang Y.Z. (Taichung, Taiwan)
- P226 *The retrospective study of hair testing for ketamine: cut-off value proposal and multiple-drugs investigation*
Gao M.Z., Wang S-M., Chen H.C., Chang H.Z. (Taichung, Taiwan)
- P227 *Simultaneous determination of synthetic cathinones in hair by liquid chromatography tandem mass spectrometry*
Chen H.C., Chang Y.Z. (Taichung, Taiwan)

Analytical

- P238 *Detection of nutmeg misuse by GC-MS screening of urine*
Neukamm M.A., Schwelm H.M., Vieser S., Schiesel N., Auwärter V. (Freiburg, Germany)
- P239 *Confirmation of tramadol and tapentadol in urine using Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)*
Langman L.J., Lahr R.G., Jannetto P.J. (Rochester, MN, USA)
- P240 *In-vitro degradation of beta-hydroxy cathinone metabolites to oxazolidine products*
Nash C., Partridge E., Painter B., Scott T., Kostakis C. (Adelaide, Australia)
- P241 *Simultaneous enantioseparation of methamphetamine and related phenethylamines by supercritical fluid chromatography aimed for methamphetamine impurity profiling*
Segawa H., Iwata Y.T., Yamamuro T., Kuwayama K., Tsujikawa K., Kanamori T., Inoue H. (Chiba, Japan)
- P242 *Rapid, simple automated screening of multiple drugs of abuse from a single urine sample under twenty minutes with the biochip analyser Evidence MultiSTAT*
Anderson V., Cardwell S., Speers A., Darragh J., Vance P., Benchik M.E., Gomez M.A., Rodríguez M.L., McConnell R.I., FitzGerald S.P. (Crumlin, United Kingdom)
- P243 *Mitigating matrix effects: An evaluation of sample extraction techniques for forensic investigation of synthetic aphrodisiacs illegally added into consumable products*
Mohd Yusop A.Y., Fu S., Xiao L. (Broadway, Australia)

- P244 *Comparative metabolism of HU-210 and HU-211 in human liver microsomes: Role of particular CYP enzymes*
Watanabe K., Usami N., Yamaori S., Hasegawa Y., Aramaki H. (Daiichi, Japan)
- P245 *Detection of date rape drugs in urine: Establishing an extensive analytical method via LC-MS/MS*
Szewczyk A., Müller A., Iwersen-Bergmann S., Andresen-Streichert H. (Hamburg, Germany)
- P246 *Liquid chromatography - high resolution mass spectrometry analysis of counterfeit erectile-dysfunction pharmaceuticals*
Miksatkova P., Kofronova E., Kuchar M. (Prague and Klecany, Czech Republic)
- P247 *Validation of Waters Xevo G2-XS Q Time of flight -high resolution accurate mass - mass spectrometer for toxicological screening in post-mortem femoral blood*
Hikin L., Oakes R., Lane D., Dave J., Burns B., Morley S.R., Smith P. (Leicester, United Kingdom)
- P248 *Capillary electrophoresis with inorganic buffers fights ion suppression in ESI TOF-MS. Application to the separation and determination of synthetic cathinones*
Tagliaro E., Dolci G., Porpiglia N. (Verona, Italy)
- P249 *A retrospective analysis of cocaine and metabolites in plasma of patients admitted to the emergency department for a suspected poisoning*
De Groote L., Choi K.C., Verstraete A.G. (Ghent, Belgium)
- P250 *Use of a simple method to estimate uncertainty in forensic toxicology: numerical approximation method (Modified Kragten method)*
Martínez Esquivel M.A. (Heredia, Costa Rica)
- P251 *Single-injection screening of 664 forensic toxicology compounds using an innovative benchtop high-resolution mass spectrometer*
Morla A., Cabrices O., Wang A., He X., McCall H., Baker L., Taylor A. (Ontario, Canada)
- P252 *Enantioselective detection of S-/R-amphetamine and S-/R-methamphetamine and differentiation between pure methamphetamine consumption and amphetamine co-consumption*
Maas A., Losacker M., Madea B., Hess C. (Bonn, Germany)
- P253 *Copper nanowire coated carbon fibers as SERS substrates for detecting new psychoactive substances*
Halouzka V., Ondra P. (Olomouc, Czech republic)
- P254 *Rethinking the approach of medicine stability testing*
Grech J., Robertson J., Thomas J., Cooper G., Naunton M., Mutambuze L., Kelly T. (Kampala, Uganda)
- P255 *Delayed rise in serum paracetamol concentration after an intentional autointoxication in an 18-year-old adolescent*
Kehoe K., Ryckeboer J., Mahieu B., Piqueur M. (Edegem, Belgium)
- P256 *Postmortem sevoflurane concentration in a child patient: case report*
Chang H.J., Kim D.W., Park D.E., Rhee J.S. (Daejeon, South Korea)

Thursday 30 August 2018

- P257 *Toxicology findings in suspected drug-facilitated crimes in the Balearic Islands, Spain*
Gomila I., Puiguriguer J., Sahuquillo L., Servera M.A., Elorza M.A., Avella S., Barceló B. (Palma de Mallorca, Spain)
- P258 *Psychosis and stroke associated with methamphetamine (Shabu): 2 case reports*
Barcelo B., Elorza M.A., Roset C., Valero M.F., Salva J., Jimenez C., Gomila I., Avella S. (Palma de Mallorca, Spain)
- P259 *Chiral amphetamine in urine: A clinical application using UPLC-MS/MS*
Zheng Y., Bergstrom M. (Eskilstuna, Sweden)
- P260 *Determine codeine metabolites from cough medicines with chlorpheniramine or abuse drug via liquid chromatography tandem mass spectrometry and gas chromatography isotope ratio mass spectrometry*
Yen Y., Lai P., Chang Y., Chyue S (New Taipei City, Taiwan)
- P261 *Comparison of four commercially available sample tubes for stabilisation of the alcohol consumption marker ethyl glucuronide in urine*
Ertl H., Hartleb J. (Hamburg, Germany)
- P262 *Study on distribution of cannabinoids in cannabis plants by desorption electrospray ionization mass spectrometry imaging*
Tanaka R., Kawamura M., Kikura-Hanajiri R., Hakamatsuka T. (Kawasaki, Japan)
- P263 *Simultaneous chiral analysis of amphetamine-type stimulants and ephedrine by capillary electrophoresis coupled to time-of-flight mass spectrometry*
Cui XZ., Zhang YR., Chen GL., Wang R., Gong FJ., Sheng ZH., Liang C. (Shanghai, China)
- P264 *Targeted forensic screening and semi-quantitation of drugs in plasma using high-resolution accurate-mass detection and online sample preparation*
De Nardi C., Thibert V. (Dreieich, Germany)
- P265 *Toxicological analysis of cocaine adulterants in blood samples*
Gameiro R., Costa S., Barroso M., Franco J., Fonseca S. (Lisbon, Portugal)
- P266 *Porous membrane-protected molecularly imprinted polymer micro-solid-phase extraction for synthetic cannabinoids and cathinones assessment by liquid chromatography - tandem mass spectrometry*
Sánchez-González J., Odoardi S., Romolo F.S., Bermejo-Barrera P, Bermejo A., Moreda-Piñeiro A., Strano-Rossi S. (Rome, Italy)
- P267 *Investigation of the acid/base behaviour of the opium alkaloid thebaine in LC-ESI-MS mobile phase by NMR spectroscopy*
Carlin M.G., Dean J.R., Bookham J.L., Perry J.J.B. (Newcastle upon Tyne, United Kingdom)

- P268 *Uncertainty measurement of a blood ethanol quantification method using ISO 11352:2012 and Nordtest TR537*
Costa P., Quintas M.J., Melo P., Sousa L., Franco J.M., Teixeira H.M. (Coimbra, Portugal)
- P269 *Method validation for the detection and quantitation of barbiturates in whole blood using liquid chromatography-tandem mass spectrometry following solid phase extraction*
Jenquine J., McGowan C., Moretto M., Foley S., Bynum N., Moore K., Botch-Jones S. (Boston, MA, USA)
- P270 *Stability of tert-Butoxycarbonyl-methamphetamine against heat and acid*
Kurakami D., Sugie K., Akutsu M. (Sendai, Japan)
- P271 *Sensitive liquid chromatography/tandem mass spectrometry method for the simultaneous determination of nine beta blockers*
Tonooka K., Hosono T., Terada M., Shinozuka T. (Kanagawa, Japan)
- P272 *Validation and method comparison of carboxyhaemoglobin by headspace - gas chromatography - thermal conductivity detector (HS-GC-TCD) for post mortem toxicological analysis*
Austin J., Oakes R., Davies T., Hikin L., Morley SR., Smith P.R. (Leicester, United Kingdom)
- P273 *Screening method development for 60 synthetic cannabinoids including 317 metabolites in urine and application on authentic cases*
Staehele S.N., Poetzsch M., Veloso V.P., Bissig C., Bovens M., Steuer A.E., Kraemer T. (Zurich, Switzerland)
- P274 *Detection of Psilocybin metabolite in urine using gas chromatography-mass spectrometry*
Insaurralde M., Martínez E. (Asuncion, Paraguay)
- P275 *The role of time and storage conditions on the composition of hashish and marijuana samples: a four-year study*
Zamengo L., Frison G., Bettin C., Badocco D., Di Marco V., Miolo G. (Venice, Italy)
- P276 *An approach to shortening the timeframe between the emergence of new compounds on the drugs market and the availability of reference standards: the microscale syntheses of nitrazolam and clonazolam, for use as reference materials, utilizing polymer supported reagents*
Dowling G., Kavanagh P.V., Eckhardt H.-G., Twamley B., Hessman G., McLaughlin G., O' Brien J., Brandt S.D. (Sligo and Dublin, Ireland)
- P277 *Analysis of fentanyl and 18 novel fentanyl analogs and their metabolites by liquid chromatography tandem mass spectrometry*
Fogarty M.F., Papsun D.M., Logan B.K. (Willow Grove, USA)
- P278 *Verification and quantification of 30 drugs from different drug classes in urine using high-resolution accurate-mass spectrometry for forensic toxicology*
Olin M., Soderberg G., Eliasson P., Kultima K., Akerfeldt T. (Hägersten, Sweden)

- P279 *An ultra-high performance liquid chromatography tandem mass spectrometry method for the determination of cocaine, benzoylecgonine, cocaethylene and anhydroecgonine methyl ester in whole blood*
Takitane J., Andreuccetti G., Leyton V., Gjerde H., Vindenes V., Berg T. (Sao Paulo, Brazil)
- P280 *Detection of chlorfenapyr in postmortem blood by gas chromatography/mass spectrometry using solid phase extraction*
Moon S., Kim S-H., Yum H., Park Y., Jeong S., Choe S., Kim E., Rhee J., Yang W. (Seoul, Korea)
- P281 *Development and validation of a UPLC- MS/MS method for simultaneous determination of nicotine and TSNAs*
Panagoulis T., Begou O., Kontogiannidou E., Gika H., Fatouros D., Raikos N., Theodoridis G. (Thessaloniki, Greece)
- P282 *A case report of positive carbohydrate-deficient transferrin result together with negative ethylglucuronide result in hair*
Tassoni G., Cippitelli M., Mirtella D., Rusconi C., Massimiliano Z., Cingolani M. (Macerata, Italy)
- P283 *Determination of glyphosate and glufosinate in human plasma by UPLC-MS-MS*
Ishii A., Zaitso K., Kusano M., Tsuchihashi H. (Nagoya, Japan)
- P284 *Liquid chromatography-tandem mass spectrometry method for the detection of anabolic steroids as adulterants in dietary supplements available in Brazil*
Tavares L., Santos M.F., Oliveira T., Yonamine M. (Sao Paulo, Brazil)
- P285 *Quantification of morphine-related compounds and metabolites in post mortem urine using LC-MS/MS*
Jakobsson G., Wrobel S., Gr en H., Kronstrand R. (Link ping, Sweden)
- P286 *MRM spectrum mode and Library Searching for Enhanced Reporting Confidence in Forensic Toxicology analysis*
Eishi L., Takeshi A. (Kyoto, Japan)
- P287 *Novel LC stationary phase for the analysis of EtG in hair: method validation and application to real cases*
Palumbo D., Cali A., Lusardi M., Bertol E., Pascali J.P. (Florence, Italy)
- P288 *Evaluation of matrix component removal using a novel flow-through scavenging plate for drugs of abuse testing in urine*
Jones R., Senior A., Lodder H., Williams L., Davies G., Teehan KJ., Edgington A., Jordan S., Desbrow C., Roberts P. (Hengoed, UK)
- P289 *A simple and fast extraction of pesticides using dried blood spot by liquid chromatography-quadrupole time-of-flight mass spectrometry*
Jung S., Park J., Shim G., Jeong H., Chung H. (Chungnam, Korea)



- P290 *High urinary concentration of delta-9-tetrahydrocannabinolic acid A after hashish consumption – Tentative identification of human in vivo metabolites by GC-MS*
Hidvégi E., Horváth Á., Tajti LB., Bene-Penczi E., Kerner Á., Révész-Schmehl H., Dobos A., Somogyi GP., Süvegh G., Veress T. (Budapest, Hungary)
- P291 *Assessment of phenothiazine concentrations in serum and whole blood using different diatomaceous earth-based solid-phase cartridges*
Saito T., Namera A., Inokuchi S. (Kanagawa, Japan)
- P292 *Determination and quantitation of drugs of abuse and (designer) opioids in serum*
Martin R., Kempf J. (Bremen, Germany)
- P293 *Forensic drug screening in urine using liquid-chromatography-time-of-flight mass spectrometry: a qualitative/quantitative approach*
Huppertz L.M., Wendt K., Schmidt M., Peter R., Ehrhardt F., Baessmann C., Auwärter V. (Freiburg, Germany)
- P294 *Profiling of counterfeit sildenafil by instrumental neutron activation analysis: a pilot study*
Salvini A., Strano Rossi S., Odoardi S., Zelaschi F., Oddone M., Romolo FS. (Rome, Italy)
- P295 *Performances of Agilent Captiva EMR cartridges for the extraction of opioids and fentanyl analogs from human serum*
Gerace E., Lusardi M., Di Corcia D., Salomone A. (Turin, Italy)
- P296 *Detection of fentanyl in forensic urine and serum samples using the new SEFRIA™ Fentanyl immunoassay*
Keller T., Böttcher M., Kaiser C., Kasper K., Keller A., Dormeier S. (Pomona, USA)
- P297 *LC-MS/MS analysis of 9 drugs of abuse and 2 major metabolites in whole blood for the driving under the influence cases: from GHB to THC*
Huls R., Nelck V., Kloos D., Verschraagen M. (The Hague, The Netherlands)
- P298 *Different types of extraction of cannabinoids from human urine and GC-MS analysis*
Korać N., Vidic D., Sutlović D., Taslaman N. (Sarajevo, Bosnia and Herzegovina)
- P299 *Sensitive determination of aconitine in human serum by LC-HR-MS following monkshood poisoning*
De Kesel P., Desmet T., Reys T., Lyphout C., Buylaert W., De Paepe P., Verstraete A.G. (Ghent, Belgium)
- P300 *Development and optimization of a novel ultrasound assisted silylation method of illicit drugs using GC-MS and chemometric techniques*
De Campos E.G., De Martinis BS. (Ribeirão Preto, Brazil)

- P301 *High spatial resolution matrix assisted laser desorption/ionization – ion trap – time of flight tandem mass spectrometry imaging for depicting longitudinal and crosswise distribution of drugs incorporated into hair*
Matsuo E., Yamamoto T., Aono M., Tsuchihashi H., Kamata T., Shima N., Miki A., Sato T., Shimma S., Katagi M. (Kyoto, Japan)
- P302 *First application of Atmospheric-Pressure Chemical Ionization Gas Chromatography Tandem Mass Spectrometry (APGC-MS/MS) to the determination of cannabinoids in serum*
Gottardo R., Ballotari M., Sorio D., Tagliaro F. (Verona, Italy)
- P303 *NSAIDs determination in human serum with GC-MS*
Krokos A., Tsakelidou E., Michopoulou E., Raikos N., Theodoridis G., Gika H. (Thessaloniki, Greece)
- P307 *Cannabis profiling for forensic intelligence improvement using gas chromatography/mass spectrometry, multivariate data analysis and statistical methodology*
Slosse A., Van Durme F., Samyn N., Mangelings D., Vander Heyden Y. (Brussels, Belgium)
- P308 *Utility of toxicological data in medical management of intracorporeal drug carriers: two case reports*
Soichot M., Pang C., Gourlain H., Bourgogne E., Delhotal-Landes B., Houze P., Megarbane B., Labat L. (Paris, France)
- P309 *LC-MS/MS Method for the Detection and quantitation of Paraquat and its main metabolites in biological samples*
Ma H., Zhang C., Wie Z., Fu S., Liu Y., Cong B., Yun K. (Taiyuan, China)

Doping

- P312 *Testing for hydrochlorothiazide (diuretic) in hair in a doping case: analytical validation and interpretation of the results*
Gheddar L., Ameline A., Kintz P., Raul J-S. (Strasbourg, France)
- P313 *Hair analysis can provide additional information in doping cases involving Clostebol*
Gerace E., Salomone A., Di Corcia D., Vincenti M., Kintz P. (Turin, Italy)
- P314 *Workflow solution for steroids and antidoping analysis in urine with GC-MS/MS and GC-HRAM*
Cavagnino D., Gerhards P., de Dobbeleer I. (Dreieich, Germany)
- P315 *A simplified sample preparation for small peptides in urine prior to detection on Q-exactive*
Petterson Bohlin K., Ericsson M. (Stockholm, Sweden)
- P316 *Evaluation of various ToF acquisition strategies for the analysis of illicit drug substances*
Wood M., Barknowitz G., Goshawk J., Lee R. (Wilmslow, UK)

Thursday 30 August 2018

- P317 *Adverse analytical findings for Hydrochlorothiazide due to contaminated nutritional supplements*
Favretto D., Visentin S., Scrivano S., Roselli E., Mattiazzi F., Pertile R., Vogliardi S., Tucci M., Montisci M.
(Padova, Italy)
- P318 *Development and application of analytical procedures for the analysis of the sulphates metabolites of anabolic androgenic steroids*
Iannone M., Matteucci R., Botrè F., de la Torre X. (Rome, Italy)





Vendor Workshops



SWATH: What can it do for you, and Microsampling for TDM and toxicology

Time: 16h30-17h30

Room: Baekeland 1

Speakers & Synopsis

Thomas Kraemer, Professor for Forensic Pharmacology and Toxicology at the Medical Faculty of the University of Zurich, Zurich, Switzerland

- Detection of 'New Psychoactive Substances', such as synthetic cannabinoids, piperazines, cathinones, opioids and benzodiazepines that all require fast and flexible analytical methods
- SWATH Acquisition's superior detection rate compared to IDA, proven by a forced co-elution experiment and by comparing screening results of authentic forensic cases
- Insights into the opportunities and pitfalls during method development and applications of SWATH DIA HRMS methods in forensic toxicology

Christophe Stove, Laboratory of Toxicology, University of Ghent, Ghent, Belgium

- Capitainer devices as a hematocrit-independent alternative for classical DBS analysis
- Volumetric absorptive microsampling for the quantification of paracetamol in CSF and blood
- Quantification of mephedrone and its metabolites in capillary dried blood spots



Toxicology Screening for post-mortem samples and monitoring of drug abuse

Time: 16h30-17h30

Room: Baekeland 2

Speakers & Synopsis

Michael Böttcher, MVZ Labor Dessau GmbH, Dessau, Germany

- Oral fluid as an alternative matrix for monitoring drug abuse in addiction medicine

Mira Sundström, National Institute for Health and Welfare, Helsinki, Finland

- Toxicological drug screening of clinical and post-mortem samples by broadband post-targeted UHPLC-QTOF mass spectrometry

Monday 27 August 2018



Rocking the boat - join us to discover a new powerful tool for forensic analysis

Time: 18h15-19h15

Room: Baekeland 1

Speaker & Synopsis

Kevin A. Schug, Professor and the Shimadzu Distinguished Professor of Analytical Chemistry in the Department of Chemistry and Biochemistry at The University of Texas at Arlington (UTA), USA

- On-line SFE – SFC – MS: Method Development and Application
- A systematic approach to optimization of online SFE – SFC – MS for forensic analysis



COLD FEET? WE'VE GOT YOU COVERED! Just Find the Hidden Compound

Time: 18h15-19h15

Room: Baekeland 2

Speakers & Synopsis

Olof Beck, Adj. Professor, Pharmacology Laboratory, Clinical Pharmacology, Karolinska University Hospital, Stockholm, Sweden

- Alternative matrices for drugs of abuse testing

Alexander Lawson, Consultant Clinical Scientist and Forensic Toxicologist, Department of Clinical Chemistry, Immunology and Toxicology, Birmingham Heartlands Hospital, Birmingham, UK

- Validation of a method to screen for drugs in blood and urine using liquid chromatography quadrupole time-of-flight mass spectrometry

Paul Smith, Consultant Scientist and Forensic Toxicologist, Department of Forensic Toxicology, Leicester Royal Infirmary, Leicester UK

- Meeting the challenge of novel psychoactive substances using high resolution mass spectrometry

VENDOR WORKSHOPS



Innovative solutions for fast and sensitive drugs of abuse screening

Time: 18h15-19h15

Room: Baekeland 1

Speakers & Synopsis

Giampietro Frison, Laboratory of Environmental Hygiene and Forensic Toxicology, DMPO Department, AULSS 3, Venice, Italy

- Screening of biofluids for detection of drugs of toxicological interest by online extraction using turbulent flow chromatography and high resolution/accurate mass hybrid quadrupole Orbitrap™ mass spectrometry

Alain Verstraete, Professor, MD, Ghent University Hospital, Department of Clinical Chemistry, Microbiology and Immunology, Ghent, Belgium

- Simplify workflow in the lab: Screening for illicit drugs in plasma with homogeneous immunoassays and confirming with high resolution mass spectrometry



Time: 18h15-19h15

Room: Baekeland 2

Speakers & Synopsis

Lewis Couchman, Ph.D. Facility Director, Analytical Services International Ltd., University of London, UK

- Opportunities for high-throughput forensic toxicology testing using accelerated liquid chromatography with MS and HR-MS detection

Katrien Sabbe, Ph.D, Agilent Technologies, Belgium

- Enhancing Chromatographic Peak Shape fidelity for Accurate and Confident Blood Alcohol Determination





Social Program

TIAFT2018 Social Program

Belgium fires one's imagination. Those with a craving for art and culture or architectural beauty, will be pampered in our cities of art. Those who like a taste of gastronomy, cultural events and nightlife will also have every wish satisfied.

Throughout the TIAFT2018 social program you will discover in the cities of Ghent and Bruges all the above!

Sunday evening 26th, 18h45 – 21h00 – Arty Opening Reception at the Museum of Fine Arts Ghent, MSK

Fernand Scribedreef 1, Ghent

The TIAFT2018 organizing committee would like to welcome you at 18h45 in this cultural setting where you can catch up with colleagues and stroll around in the museum. Or take the opportunity to follow the guide and have a look at the restoration of Mystic Lamb, the fifteenth-century Altarpiece by the van Eyck brothers.

There is a bus shuttle service to the city centre, with the last buses leaving at 21h30.



SOCIAL PROGRAM



Tuesday evening 28th, 21h30 – 00h30 – Young Scientist Night Out at White Cat

Patershol, Ghent

Network event and free drinks for the TIAFT Young Scientists in the music venue White Cat, located in a typical lively spot of Ghent. With the kind support from Shimadzu.



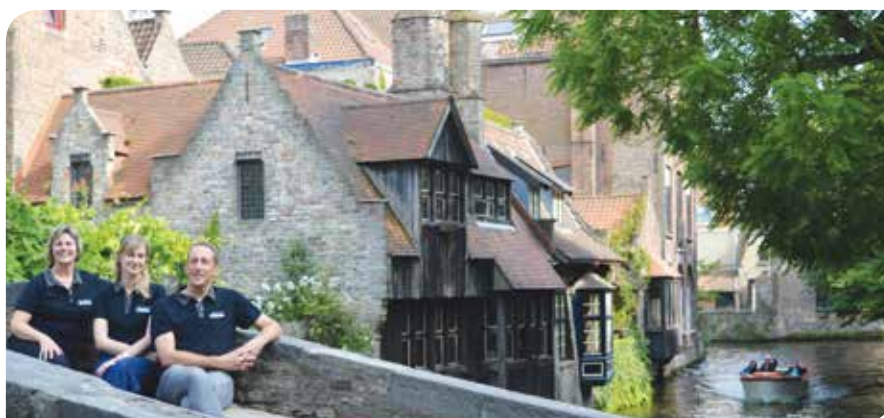
 **SHIMADZU**
Excellence in Science

Wednesday afternoon 29th, 12h15 – 23h00 – Bruges

The TIAFT EXPRESS will take you to Bruges. We will leave immediately after the last morning scientific session from the ICC congress centre and walk through the Citadelpark to the “Gent Sint-Pieters” train station. Lunch packages will be provided along the way. The TIAFT EXPRESS to Bruges will be waiting at track 9 and takes off at 13h21 SHARP. On the train you will get acquainted with the guides. Once in Bruges the guides will take you along to discover the city. The tour will last approximately 2 hours. After the city walk there is some free time to enjoy shopping, taste some chocolates, have a refreshment, visit a brewery or have a look at famous Flemish paintings. Beware of the cobblestones and wear comfortable shoes !

The evening dinner with a variety of typical Flemish delicacies is supported by Shimadzu and will take place at the historical Belfry Halls, and starts at 18h30 with a reception.

The first bus shuttles back to Ghent will take off at 21h00. Guides will be foreseen to show the way to the buses.



 **SHIMADZU**
Excellence in Science

Thursday evening 30th, 19h30 – 01h00 – Sporty Farewell Dinner at “ 't Kuipke ”

Citadelpark, Ghent

Cycling enthusiasts are undoubtedly familiar with 't Kuipke, a very spectacular indoor cycling track. At 19.30 a team of indoor cyclists will compete for the TIAFT2018 victory. While watching the race, you can enjoy drinks and appetizers, followed by a walking dinner. Time is foreseen for awards and speeches and of course after the dessert we make place to install the dancing floor.

The first buses back to the city centre will take off at 23h00.



Also our **partners** are charmed by the city and combine their **workshops with a little getaway in Ghent.**

- Sunday afternoon 26th, 14h00 – 16h30 – Baekeland Rooms : Guided tour in the city followed by workshops SCIEX and Bruker. Beware of the cobblestones and wear some comfortable shoes!
- Monday evening 27th, 18h15 – 19h15 – Baekeland Rooms: Workshops Shimadzu and Waters, followed by a boat tour
- Tuesday evening 28th, 18h15 – 19h15 – Baekeland Rooms: Workshops ThermoFisher and Agilent, followed by a boat tour