

# Final Program



**Wednesday, August 28, 2013**

12h00 – 14h00 Registration desk open

14h00 Welcoming

## **Session 1: 14h15 – 17h30 Expertise, interpretation and bias**

14h15 C1 Interpreting results of forensic analyses using probabilistic expert systems.  
What about hair?  
Alex Biedermann, Franco Taroni

14h45 O1 Is one hair strand really representative?  
Franz Dussy, Nicholas Carson, Sarah Hangartner, Thomas Briellmann

15h00 O2 Differentiating between consumption and external contamination  
when testing for cocaine and cannabis in hair samples  
J. Nutt, L. Tsanaclis, K. Bagley, S. Bevan, J. Wicks

15h15 O3 Interpretation of hair findings in children: about a case involving carbamazepine  
Pascal Kintz

15h30 O4 False-negative risk of ethyl glucuronide hair analysis in a female alcohol-abuse  
monitoring population.  
Joey Gareri, Gideon Koren

15h45 O5 Is the hair sampling procedure crucial for reliable results in hair analysis?  
Clementine Klemm, Enrico Labriola, Jochen Beyer

16h00-16h45 **Coffee Break**

16h45 O6 Ethyl Glucuronide in Hair: Investigation of Anomalous High Values  
Virginia Hill, Oscar Chao, ChenChi Cheng, Stephanie Bell, Lina Adams,  
Michael Schaffer

17h00 O7 Hair straightening: Influence on ethyl glucuronide content in hair.  
Jana Ettliger, Luc Kirchen, Michel Yegles

17h15 O8 Study of the incorporation and release of cocaine and THC  
in damaged hair samples.  
Marco Vincenti, Agnese Veronesi, Alberto Salomone and Enrico Gerace

18h45 **Apero Circus Knie**

20h15 **Circus Knie**

**Thursday, August 29, 2013**

**Session 2: 08h45 – 10h15 Hair as marker of consumption and exposition**

- 08h45 C2 Hair analysis for biomonitoring of environmental and occupational exposure: state of the art and future needs.  
Aristidis Tsatsakis
- 09h15 O9 Changes in patterns of drug-abuse consumption evidenced by hair analysis: Study over the last decade.  
Carmen Jurado, Teresa Soriano
- 09h30 O10 Pubic hair for the detection of drugs of abuse, tobacco, alcohol and medicines exposure during pregnancy.  
Elena Lendoiro, Ana de Castro, Patricia Peñas, Eva González-Colmenero, Manuel Macía, Ana Concheiro-Guisán, Marta Concheiro, Angelines Cruz, Manuel López-Rivadulla
- 09h45 O11 External contamination of hair as a marker of exposure to chemical warfare agents.  
Marie Spiandore, Anne Piram, Alexandre Lacoste, Denis Josse, Pierre Doumenq
- 10h00 O12 Detection of oxycodone in hair, consumption or contamination?  
Dimitri Gerostamoulos, Voula Staikos, Tu Vo, Malcolm Dodd and Olaf Drummer

**10h15-11h15 Coffee Break and poster session I (P1-P6)**

**Session 3: 11h15 – 12h30 Quality assurance in hair analysis**

- 11h15 C3 External quality control: a way to improve reliability in hair analysis.  
Roland Becker
- 11h45 O13 External quality control in hair analysis for drugs of abuse organized by the Society of Hair Testing.  
Carmen Jurado, Pascal Kintz, Christian Staub, Hans Sachs
- 12h00 O14 Validation of ELISA screening for the monitoring of abstinence from illegal and legal drugs in hair.  
Ronald Agius
- 12h15 O15 Significant higher extraction yields for EtG by hair grinding using a powder mill in comparison to hair cutting by scissors.  
Stefan König, Patricia Coro, Sidonia Guggisberg, Anita Iannone, Severine Krönert, Thomas Wüthrich, Joëlle Tschui, Wolfgang Weinmann

**12h30 – 14h00 Business lunch**

#### **Session 4: 14h00 – 16h45 Free Topics**

14h00 O16 Nails: An “Alternative” Hair Matrix?

Milena M. Madry, Tina M. Binz, Andrea E. Schwaninger,  
Markus R. Baumgartner, Thomas Kraemer

14h15 O17 Drug facilitated crime and hair analysis: a retrospective study, social, judicial and analytical aspects.

Marc Deveaux, Marjorie Chèze, Guillaume Hoizey, Aurélie Muckensturm,  
Gilbert Pépin

14h30 O18 Fentanyl - Topical findings in Hair

Michael Uhl, Frank Scheufler, Hans Sachs

14h45 O19 Ethyl-glucuronide in hair, an alcohol marker of chronic alcohol consumption

Francisca Corthorn, Maria Natalia Gutierrez

#### **15h00-16h00 Coffee Break and poster session II (P7-P12)**

16h00 O20 Investigating Prehistoric Hallucinogen Consumption: An Archaeological Case Study from Lipez, Bolivia?

Melanie Miller, Jose Capriles, Juan Albarracin-Jordan, Christine Moore,

16h00 O21 Utility of cosmetically treated hair for the detection of drugs and alcohol.  
Ronald Agius

16h15 O22 Micropulverized extraction and LC-MSMS detection for illegal and therapeutic drugs of abuse in hair

Frank Sporkert, Laetitia Monney, Magali Dovat, Marc Augsburger

16h30 O23 Extended Washing of Damaged or Porous Hair: An Alternative to the Extended Aqueous Wash Procedure

Virginia Hill, Michael Schaffer

18h30 **Excursion and dinner party on Mont Salève (France)**

## Friday, August 30, 2013

### Session 5: 08:45 – 12h30 New analytical trends in hair analysis

- 08h45 C4 High resolution mass spectrometry and hair analysis.  
Luc Humbert
- 09h15 O24 Towards hair-scanning by ambient ionization mass spectrometry.  
Wilco F. Duvivier, Teris A. van Beek, Michel W.F. Nielen
- 09h30 O25 Rapid screening of drugs in hair in a clinical-toxicology setting by micropulverized extraction and LC-HRMS.  
Donata Favretto, Marianna Tucci, Susanna Vogliardi, Santo Davide Ferrara,
- 09h45 O26 Synthetic phosphodiesterase-5 inhibitors abuse and interest of hair testing  
Reporting of a rape case.  
Vincent Cirimele, Nadine Klinger, Matthieu Etter and Mathieu Duez
- 10h00 O27 LC-MS/MS of GHB in head hair and beard.  
Yvonne Hari, Stefan König, Alexandra Schröck, Patrizia Coro, Volker Auwärter,  
Annette Thierauf, Wolfgang Weinmann

### 10h15-11h15 Coffee Break and poster session III (P13-P18)

- 11h15 O28 THCA in Head Hair: A Comparison with Fingernail.  
Joseph Jones, Mary Jones, Brian Jones, Charles Plate, Douglas Lewis
- 11h30 O29 Analyzing 11-nor- $\Delta^9$ -tetrahydrocannabinol-9-carboxylic acid (THCA) in Hair  
using 2-D GC and Negative Chemical Ionization MS/MS.  
Lauren Vinsick
- 11h45 O30 A novel technique for simple and fast pulverisation of hair samples.  
Clementine Klemm, Kathrin Vogt, Jochen Beyer
- 12h00 O31 Quantitative analysis of Amphetamines in hair using LC-MS/MS, method  
development, validation and application.  
Gerd Jakobsson, Robert Kronstrand
- 12h15 O32 Role of Immunoassays in Hair Testing: now and tomorrow.  
Christine Moore

### 12h30-14h00 Business lunch

### 14h00-14h30 Closing ceremony and prizes

### 14h30-15h30 Business Meeting

# Posters

Thursday, August 29, 2013

## 10h15-11h15 **Poster session I (P1-P6)**

- P1. Norcocaine in human hair differentiates cocaine use from external exposure.  
Shirley Poon, Paula Walasek, Gideon Koren
- P2. Development of SRM (Selected Reaction Monitoring) mass spectrometry method for drug analysis in hair by GC-MS-MS.  
Amadeu Cardoso Júnior, Ana Letícia Goulart, Priscilla Charles, Rodrigues Pereira, Manoella Borborema, Fábio de Oliveira Martinez Alonso, Bruno Duarte Sabino
- P3. Determination of ethylglucuronide in hair: optimization of the extraction process and validation of an UPLC-ESI-MS/MS procedure.  
Nathalie Kummer, Sarah Wille, Willy Lambert, Nele Samyn
- P4. Hair analysis for pre-employment drug testing in high-risk workplaces in Brazil.  
M Andraus, L Tsanaclis, C Sodr , L Morales, C Pisaneschi, D Silva, M Salvadori, J Wicks
- P5. A study on photodegradation of drugs of abuse *in vitro* and in hair.  
Donata Favretto, Marianna Tucci, Santo Davide Ferrara, Giorgia Miolo
- P6. Hair analysis for long-term monitoring of buprenorphine intake in opioid withdrawal.  
Valentina Pirro, Ivana Fusari, Enrico Gerace, Daniele Di Corcia, Enrico De Vivo, Alberto Salomone, Marco Vincenti

## 15h00-16h00 **Poster session II (P7-P12)**

- P7. A Retrospective study of opiates and metabolites in hair of workplace testing subjects.  
Virginia Hill, Michael Schaffer.
- P8. Multi-antigen microplate enzyme immunoassays for drugs in hair.  
Virginia Hill, Elvan Loni, Michael Schaffer.
- P9. Determination and quantification of naloxone, buprenorphine and nor-buprenorphine in nails of ex-drug abusers under long term treatment with suboxone.  
Manolis N. Tzatzarakis, Mary Mantsi, Leda Kovatsi, Elena Vakonaki, Matthaios P. Kavvalakis, Xenofon Mandakas, Stamatis Belivanis, Aristidis M. Tsatsakis.
- P10. Determination of DDTs in human hair by SPME/GC-MS.  
Manolis N. Tzatzarakis, Matthaios P. Kavvalakis, Elena Vakonaki, Eleutheria Theodoropoulou, Emmanouil Barbounis, Emmanouel N. Kokkinakis, Aristidis M. Tsatsakis
- P11. Monitoring of buprenorphine and nor-buprenorphine in head hair samples of participants in rehabilitation program under suboxone.  
Elena Vakonaki, Stamatis Belivanis, Mary Mantsi, Leda Kovatsi, Manolis N. Tzatzarakis, Polychronis Stivaktakis, Aristidis M. Tsatsakis
- P12. Development of GC-MS method for the detection and quantification of cypermethrins metabolites in hair.  
Matthaios P. Kavvalakis, Manolis N. Tzatzarakis, Konstantina K. Vorou, Dionisios Vynias, Andreas K. Tsakalof, Aristidis M. Tsatsakis

**Friday, August 30, 2013**

10h15-11h15      **Poster session III (P13-P18)**

- P13. Cortisol and testosterone in hair as biological markers of systolic heart failure.  
Justin Chan, David Pereg, Evan Russell, Tatiana Berlin, Morris Mosseri, Jamie Seabrook, Gideon Koren, Stan Van Uum
- P14. Drugs of abuse and psychotropic substances in hair: a new and rapid screening method.  
Sara Vezzoli, Samuele Manzoni, Marzia Bernini, Massimo Gottardi, Andrea Lotti
- P15. Application of ICP-MS on hair analysis in the case of lead intoxication caused by traditional medicine pills  
Christèle Widmer, Max Villa, Olivier Plaut, Marc Augsburger.
- P16. The determination of terbuthylazine herbicide in hair as a marker of cumulative exposure.  
Rosa Mercadante, Elisa Polledri, Silvia Fustinoni
- P17. Quantification of ethyl glucuronide in hair: The effect of milling and sonication on the extraction efficiency.  
Roland Becker, Bettina Mönch, Dominic Ammann, Irene Nehls
- P18. The 2012 ethyl glucuronide (EtG) and fatty acid ethyl esters (FAEE) proficiency testing on behalf of the Society of Hair Testing (SoHT)  
Insa Lô, Roland Becker, Frank Sporkert