



## 22<sup>nd</sup> Scientific Meeting of the Society of Hair Testing Programme at glance

Monday 12th June

**08h20 – 08h30: opening ceremony & welcome addresses**

**Moderators: Markus R. Baumgartner & Pascal Kintz**

**08h30-09h00: Keynote 1: “Interpretation of hair analysis results: single and multiple doses” by Dr. Markus R. Baumgartner (Switzerland)**

09h00-09h15 **O1:** Photodegradation of amphetamines and ketamine in hair irradiated in a solar box. Giorgia Miolo, Marianna Tucci, Giulia Stocchero, Susanna Vogliardi, Massimo Montisci, Donata Favretto

09h15-09h30 **O2:** Disappearance of R/S-methamphetamine and R/S-amphetamine from human scalp hair after discontinuation of methamphetamine abuse. Ping Xiang, Hui Yan, Ting Wang, Min Shen

09h30-09h45 **O3:** Usefulness of hair analysis and psychological tests for identification of alcohol and drugs of abuse consumption in driving licence regranting. Elena Lendoiro Ana de Castro, Cristian Jiménez-Morigosa, Xosé A. Gomez-Fraguela, Manuel López-Rivadulla, Angelines Cruz

09h45-10h00 **O4:** The world's largest drug-control program for drivers uses hair testing. Francisco Garonce

**10h00 – 10h30: coffee break**

**Moderators: Lolita Tsanaclis & Vincent Cirimele**

**10h30-11h00: Keynote 2: “I never touched it, I just went to a party! The impact of external contamination on interpretation of hair testing results” by Dr. Lolita Tsanaclis (UK)**

11h00-11h15 **O5:** Strategies for discrimination of cocaine consumption from contamination in cocaine positive hair samples based on metabolic ratios in combination with the detection of hydroxycocaines. C. Scholz, K. Wyss, E.J.E. Engeli, M. Herdener, T. Kraemer, M.R. Baumgartner

11h15-11h30 **O6:** Cannabis contamination risks related to the manipulation of a portable vaporizer. Mattia Furer, Christian Giroud, Nicolas Concha-Lozano, Frank Sporkert

11h30-12h30: **Guided poster tour Chaired by Markus R. Baumgartner**

**P1.** What do hair drug levels mean? Kieran Spellman, Sian Bevan, Abduselam Mohammed, Kirsty Card, Kim Bagley, Lolita Tsanaclis, John Wicks

**P2.** Patterns of poly drug use with positive hair tests for cocaine and alcohol markers. Marie Davies

**P3.** Drugs of Abuse in Chronic Consume in hair. National Institute of Toxicology and Forensics Sciences (INTCF) Spain. Results of the Drug of Abuse Department in 2015. Matey Cabañas J.M., Sanchez Perez S., Moreno de Simón M.D., Vicente García

**P4.** Improved workflow and detection of amphetamines in drug abusers' hair using hair pulverizer with a rapid cleanup process. Cheng Min Lim, Jordan Ong, Hilda Loh, Yong Qi Loh, Chi Pang Lui

**P5.** A fast determination of abuse drugs and metabolites in human hair by UPLC-MS/MS. Rafael Menck de Almeida, Danilo Augusto Alves Pereira, André Luiz Teroso Ribeiro

**P6.** Hair analysis in driving license issue and renewal in Brazil. Maristela Andraus, Lolita Tsanaclis, Myriam Salvadori, Cristina Pisaneschi, John Wicks

#### 12.30 – 14h00: lunch

**Moderators: Pascal Kintz & Frank Sporkert**

**14h00-14h30: Keynote 3: “Difficulties when interpreting hair analysis results for children. Special focus on methadone” by Dr. Pascal Kintz (France)**

14h30-14h45 **O7:** Hair Analysis in Infant Deaths. Kerryn L. Crump, Matthew Di Rago, Linda L. Glowacki, Noel W.F. Woodford

14h45-15h00 **O8:** Case reviews – consistency in hair drug testing; ensuring a level playing field for donors. James Nutt, Lolita Tsanaclis, Siân Bevan, Kieran Spellman, John Wicks

#### Sponsor Presentation

15h00-15h15: **O9:** Simultaneous screening of common drugs of abuse from a single hair sample using a biochip array platform. R. Acheson, J. Darragh, C. Soni, D. Engelhart, M.L. Rodríguez, R.I. McConnell, S.P. FitzGerald

#### 15h15 – 15h45: coffee break

**Moderators: James Nutt & Lolita Tsanaclis**

**15h45-16h15: Keynote 4: “Quality and standardisation in hair analysis” by Dr. Gail Cooper (USA)**

16h15-17h00: **Round Table 1:** Markus R. Baumgartner, Lolita Tsanaclis, Pascal Kintz, Gail Cooper plus 2

#### 18h30 – 19h30 Happy hour drinks at the Chapel 1877

## Tuesday 13th June

**Moderators: Fritz Pragst & Michael Yegles**

**08h30-09h00 Keynote 5: “Ethyl palmitate instead of the sum of four FAEEs: a comprehensive data evaluation concerning advantages, disadvantages and cut-offs” by Prof. Dr. Fritz Pragst (Germany)**

09h00-09h15 **O10:** Validation of a LC-MS/MS method for the analysis of ethyl glucuronide (EtG) in hair. Peerayut Phuangphung, Fiona M Wylie, Denise A McKeown

09h15-09h30 **O11:** Critical issues in the standardization and interpretation of alcohol consumption markers protocols. Marco Vincenti, Eugenio Alladio, Alberto Salomone

09h30-09h45 **O12:** Quantitative estimation of EtG in hair by UHPLC coupled with tandem mass spectrometry: Application to sports & forensic sciences. Kapendra Sahu, Alka Beotra, Shobha Ahi, Mahesh Nasare, Satyendra Thakur

#### 9h45 – 10h15: coffee break

**Moderators: Clemens Kirschbaum & Robert Kronstrand**

**10h15-10h45: Keynote 6: “Stressed from head to toe: Steroid hormone levels in hair as markers of chronic stress” by Prof. Dr. Clemens Kirschbaum (Germany)**

10h45-11h00 **O13:** Endogenous cortisol in keratinized matrices: Systematic determination of baseline cortisol levels in hair and the influence of gender, age and hair color. T. M. Binz, L. Rietschel, F. Streit, M. Hofman, M. Herdener, B. B. Quednow, N. Martin, M. Rietschel, T. Kraemer, M. R. Baumgartner

11h00-11h15 **O14:** The plasma protein binding of the endogenous glucocorticosteroids is of vital importance for the concentrations in hair. Aniko Krumbholz, Patricia Anielski, Detlef Thieme

**11h15-12h30 Guided poster tour Chaired by Robert Kronstrand**

**P7.** Does the donor’s hair length impact on the presence of alcohol markers in hair? Jayne Hazon, Richard Poulton

**P8.** The Diagnostic Value of Sectioning Hair Samples for EtG Analysis. Sian Bevan, Kieran Spellman, Kim Bagley, Lolita Tsanaclis, John Wicks

**P9.** Influence of alcohol containing and alcohol free cosmetics on FAEE concentrations in hair. A performance evaluation of ethyl palmitate as sole marker, versus the sum of four FAEEs. C.Dumitrascu, R.Paul, R.Kingston, Rachel Williams

**P10.** Optimisation of a Supported Liquid Extraction Method for the Analysis of Amphetamines and Metabolites in Hair. Bethany Connett, Rhys Jones, Lee Williams, Adam Senior, Alan Edgington, Helen Lodder, Geoff Davies, Steve Jordan, Claire Desbrow, Paul Roberts.

**P11.** Detection of exogenous anabolic androgenic steroids in hair and evaluation of hair colour influence. Hui Yan, Ping Xiang, Xianyi Zhuo, Min Shen

**P12.** Pooled snippets of authentic hair for use as reference control material. Natacha Valois, Michael Böttcher, Alberto Salomone, Vincent Cirimele, Markus R. Baumgartner

**P13.** Interlaboratory comparison for the determination of synthetic cannabinoids in hair. AC. Jollain, M. Neukamm, V. Auwärter, M. Cheze, M. Deveaux, T. Dame, H. Fels, F. Musshoff, A. Salomone, M. Vincenti, V. Cirimele

**12.30 – 14h00: lunch**

**Moderators: Wilco Duvivier & Marco Vincenti**

**14h00-14h30: Keynote 7: “The advantages of using DART-MS technology in hair analysis” by Dr. Wilco Duvivier (The Netherlands)**

14h30-14h45 **O15:** Quantitative analysis of drugs in hair by UHPLC high resolution mass spectrometry: An application to drug use monitoring. Robert Kronstrand, Malin Forsman, and Markus Roman

14h45-15h00 **O16:** Determination of antidepressants in hair via UHPLC-MS/MS as a complementary informative tool for clinical and forensic toxicological assessments. María del Mar Ramírez Fernández, Sarah MR Wille, Virginia Hill, Nele Samyn

15h00-15h15 **O17:** Extraction of Drugs in Hair – All is said and done and nothing left to try? Milena M. Madry, Thomas Kraemer, Markus R. Baumgartner

**15h15 – 16h15: coffee break**

**Moderators: Gail Cooper & John Wicks**

**16h15-16h45: Keynote 8: "Hair testing for cannabis use in general population samples" by Dr. Michelle Taylor (UK)**

16h45-17h15: **Round Table 2:** Kirschbaum, Fritz Pragst, Wilco Duvivier, Michelle Taylor plus 2

**19h00 – 22h00 Banquet at Cardiff Castle**

## **Wednesday 14th June**

**Moderators: Alberto Salomone & Maristela Andraus**

**8h30-9h00: Keynote 9: "Interpretation of NPS results in real hair samples" by Dr. Alberto Salomone (Italy)**

9h00-09h15 **O18:** In vitro THC degradation by the skin colonising yeast *Malassezia furfur*. Mattia Furer, Michel Monod, Marina Fratti Ducreux, Christian Giroud, Frank Sporkert

09h15-09h30 **O19:** Distribution pattern of ethyl glucuronide and caffeine concentrations over the scalp of a single person in a forensic context. Ulf Meier, Thomas Briellmann, Eva Scheurer, Franz Dussy

09h30-09h45: **O20:** Ethyl glucuronide in keratinous matrices as biomarker of alcohol use: a correlation study between hair and nails. Delphine Cappelle, Hugo Neels, Steven De Keukeleire, Adrian Covaci, Cleo L. Crunelle, Alexander L.N. van Nuijs

09h45-10h00: **O21:** Determination of hydroxy-metabolites in hair samples and comparison with street cocaine samples. Thomas Franz, Frank Scheufler, Klaus Stein, Michael Uhl, Torsten Dame, Gerlinde Schwarz, Hans Sachs, Frank Musshoff

**10h00 – 10h30: coffee break**

**Moderators: Brice Appenzeller & Vincent Cirimele**

**10h30-11h00: Keynote 10: "Hair analysis for the biomonitoring of pollutant exposure" by Dr. Brice Appenzeller (Luxembourg)**

11h00-11h15 **O22:** How pharmacokinetics influence the link between exposure to pesticides and their resulting concentration in hair. Caroline Chata, Emilie M. Hardy, Paul Palazzi, François Faÿs, Nathalie Grova, Claude Emond, Michel Vaillant, Brice M. R. Appenzeller

11h15-11h30 **O23:** Assessment of pesticide exposure during pregnancy by hair analysis: results from the ELFE mother-child cohort. Emilie M. Hardy, Rémi Béranger, Célia Dexet, Cécile Chevrier, Brice M.R. Appenzeller

11h30-11h45 **O24:** (dietary) Exposure assessment of pesticides through hair analysis. Hans Mol, Rosalie Nijssen

11h45-12h00 **O25:** Hair analysis for the biomonitoring of PAH exposure: comparison with urine and DNA adducts in a rat model. Grova N, Faÿs F, Hardy EM, Appenzeller BMR

**12.30 – 14h00: lunch**

**Moderators: Donata Favretto & Fritz Pragst**

**14h00-14h30: Keynote 11: "When hair is the witness. Forensic Applications of Hair Analysis" by Dr. Donata Favretto (Italy)**

14h30-15h00: **Round Table 3:** Alberto Salomone, Brice Appenzeller, Donata Favretto plus 3

**15h00 – 15h30: coffee break**

**15h30-17h00: Business meeting - SoHT Members only & announcement of the awards for best presentation**

**End of the 22<sup>nd</sup> Meeting of the SoHT in Cardiff**

**Next year in Ghent, Belgium**

**Joint meeting of the SoHT with TIAFT, 26th - 30th of August 2018**