



20th Annual Meeting of the Society of Hair Testing

São Paulo, Brazil 3 - 6 May 2015

Location of the Meeting

Tivoli São Paulo - Mofarrej

Host

Laboratórios Chromatox Limitada

President of the SOHT

Markus Baumgartner

Chairperson of the Meeting

Maristela Andraus

Organising Committee

Maristela Andraus Lolita Tsanaclis Monica Ferreira
Cristina Azevedo Myriam Salvadori

Registration Desk

The registration desk will be open at the Tivoli São Paulo - Mofarrej Hotel:

Sunday May 3rd 16h00 – 20h30

Monday May 4th from 8h00

Tuesday May 5th from 8h00

Wednesday May 6th from 8h00

Oral Communications

They should last no longer than 15 min (including 5 min for discussion). The presentations should be brought in a USB memory stick (MS PowerPoint format).

Poster/Oral Presentations Awards

Posters and Oral presentations awards for under 40 years of age: to be announced on Wednesday 6th, afternoon at the Farewell Coffee Break.

Conference Proceedings

The conference proceedings will be published on a Journal to be announced.

Social Events

Sunday May 3rd 19h30-20h30

Welcome reception at the Tivoli São Paulo - Mofarrej (Dress: informal)

Monday May 4th 19h00-22h00

Churrascaria Fogo de Chão – Jardins (Dress: informal) -Transport provided

Tuesday May 5th 19h00-22h00

Pizzaria Margherita - Jardins (Dress: informal) - Transport provided

Wednesday May 6th 20h00-24h00

Terra da Garoa – Musical Bar (Dress: informal) - Transport provided

Scientific Programme

Monday 4th May 2015

7h45 – 8h45 **SBTox Workshop (in Portuguese) Coleta e Cadeia de custódia**
Lolita Tsanaclis, Maristela Andraus

8h45 – 9h00 **Welcome**

Session 1 Chairpersons: Markus Baumgartner, Pascal Kintz

9h00-9h30 **The drug problem in Brazil is as big as the country – and it's a big country!**
 Lecture 1 **Alice Chasin**

9h30 **O1.** Different perspectives of drug analysis: testing of illicit drugs and new psychoactive substances, and their detection in human hair
M. Uhl, F.Scheufler

9h45 **O2.** Cocaine, opiate, amphetamine, and marijuana levels in hair submitted in Personal Drug Testing programs from Brazil and U.S.
M. Schaffer, V. Hill, T. Cairns

10h00 **O3.** Development and Production of Hair Proficiency Testing and Reference Materials — What We Know and What We Would Like to Know
 Jeri D. Roper-Miller

10h15 **O4.** Hydromorphone in hair: an indicator of heroin intake?
M.M. Madry, M.M. Bosshard, M.R. Baumgartner

10h30 – 11h00 **Coffee break**

Session 2 Chairpersons: Michael Uhl, Maristela Andraus

11h00-11h30 **Hair analysis evolution**
 Lecture 2 **Pascal Kintz**

11h30 **O5.** Δ^9 -Tetrahydrocannabinol (THC) and 11-nor-9-carboxy-THC (THC-COOH) findings in hair samples after controlled oral intake of dronabinol
B. Moosmann, V. Auwärter

11h45 **O6.** Thermal hair straightening: Influence on THC and CBN content in hair
 R.J. Ettliger, M. Yegles

12h00 **O7.** Detection of cosmetically treated hair samples throughout the hair analysis process.
V. Hill, M. Schaffer, T. Cairns, N. Stowe, E. Loni

12h15 **Sponsor Presentation**

S1. Identification and characterization of unknown organic compounds by GC / MS and or LC / MS; the challenge CSI
 Celso Blatt, Ph.D

12h35 – 14h00 **Lunch**

Session 3 Chairpersons: Brice Appenzeller, Lolita Tsanaclis

14h00 – 14h30 **Analytical Issues**
 Lecture 3 **Frank Sporkert**

14h30 **O8.** Investigations into the feasibility of using Orbitrap high resolution mass spectrometry for broad range screening of human hair.
B. Gray, J. Baldock and S. Hudson

14h45 **O9.** Development of a new tandem mass spectrometric method for identifying hydroxycocaines in human hair
M. Schaffer, O. Chao; J. Sommer, V. Hill, T. Cairns

15h00 **O10.** Improving analytical sensitivity when using LC-MS/MS for hair analyses
 Hopkins J, Clarke J, Murgu M

15h15 **O11.** Contactless decontamination of hair samples: cannabinoids
J. Restolho, M. Barroso, B. Saramago; C. Afonso

15h30 – 16h00 **Coffee break**

16h00 – 17h00 **Round table of discussions**

Chairpersons Donata Fravetto, Pascal Kintz and Frank Sporkert

19h00 – 22h00 **Musical bar**

Tuesday 5th May 2015

7h45 – 8h45 **SBTox Workshop (in Portuguese) Extração e análise**
Lolita Tsanaclis, Maristela Andraus

Session 4 Chairpersons: Alberto Salomone, Vincent Cirimele

9h00 – 9h30 **Forensic applications of hair analysis**
Lecture 4 **Donata Favretto**

9h30 **O12.** Exposure of hair to marijuana smoke, and results of hair testing of various populations for carboxy-THC
V. Hill, M. Schaffer, T. Cairns

9h45 **O13.** Comparative assessment of human exposure to pesticides by urine and hair analysis
B.M.R. Appenzeller, E. Hardy, R. Legrand, S. Leite, N. Sauvageot, R. Duca

10h00 **O14.** Detection of adulterants in hair samples as a diagnostic aid in clinical practice
M. Andraus, L. Tsanaclis, M. Ribeiro, R. Laranjeira, C. Pisaneschi, M. Salvadori, J. Wicks

10h15 **O15.** Hair analysis to assess excessive alcohol consumption in a student population
M. Barroso, D. Opolzer, E. Gallardo

10h30 – 11h00

Coffee break

Session 5 Chairpersons: Frank Sporkert, John Wicks

11h00 – 11h30 **Progress and Pitfalls of Alcohol-Biomarkers in Hair – A Critical Overview**
Lecture 5 **Fritz Pragst**

11h30 **O16.** Ethyl Glucuronide Determination in Hair as an Indicator of Chronic Alcohol Abuse: A Fully Validated Method using GC-MS/MS
A. Pascali, A. Santos

11h45 **O17.** Preliminary findings of a controlled alcohol dosing study to assess the correlation between hair EtG and alcohol consumption in healthy volunteers
D. Cappelle, C.L. Crunelle, A. Covaci, A.L.N. van Nuijs, K. Maudens, M. Yegles, H. Neels

12h00 **Posters Presentations – Authors will be standing by their posters**

12h30 – 14h00

Lunch

Session 6 Chairpersons: Pascal Kintz, Virginia Hill

14h00 – 14h30 **Child Protection & Family Law**
Lecture 6 **Donata Favretto**

14h30 **O18.** Implication of non-attendance for hair collection for drug and alcohol testing in child care cases.
J. Nutt, L. Tsanaclis, K. Bagley, S. Bevan, J. Wicks

14h45 **O19.** Pre- and post-natal exposure to methadone and cocaine in a case of shaken baby syndrome
D. Favretto, S. Vogliardi, A. Donà, M. Tucci, G. Stocchero, S.D. Ferrara, R. Snenghi,

15h00 – 15h30

Coffee break

Session 7 Chairpersons: Donata Favretto, Markus Baumgartner

15h30– 16h00 **Quality and Accreditation**
Lecture 7 **Helen Vangikar**

16h00 **O20.** Brazilian guidelines for drug and alcohol testing in hair collection and analysis
A. Chasin, M. Salvadori, L. Tsanaclis, B.D. Sabino, B.S. de Martinis, G.C. de Araújo, J.L. Costa, L. Morales, M. Yonamine, R. A. Menck, R. Linden
(with **SBTox** Introduction)

16h15 **Round table of discussions**

Chairpersons Helen Vangikar, Myriam Salvadori, Michael Schaffer

19h00 – 22h00

Pizzaria



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Wednesday 6th May 2015

7h45 – 8h45 **SBTox Workshop (in Portuguese) Interpretação dos Resultados**
Lolita Tsanaclis, Maristela Andraus

Session 8 Chairpersons: Fritz Pragst, Joseph Jones

9h00 – 9h30 **Providing Appropriate and Meaningful Workplace Hair Drug Testing**
Lecture 8 **Lolita Tsanaclis**

9h30 **O21.** Association between plasma and hair concentration of pesticides after controlled exposure of animals

C. Chata, E.M. Hardy, B.M.R. Appenzeller

9h45 **O23.** Dealing with external contamination on hair samples, when in doubt.

M. Andraus, L. Tsanaclis, C. Pisaneschi, M. Salvadori, J. Wicks

10h00 **O24.** Cut-off proposal for the detection of ketamine in hair

A. Salomone, E. Gerace, D. Di Corcia and M. Vincenti

10h15 – 11h00

Coffee break

Session 9 Chairpersons: Maristela Andraus, Michel Yegles

11h00 – 11h30 **Drugs, Driving and Hair Testing**
Lecture 9 **Markus Baumgartner**

11h30 **O25.** Assessment of cross addiction in the long-term control of abstinence for drugs of abuse by hair analysis.

E. Hermann, A. Cronin, M. Vogt, Grimm U. und J. Beyer

11h45 **O26.** Maternal hair as a biomarker to assess polybrominated diphenyl ether (PBDE) exposure in male infants with hypospadias

S. Poon, A. Carnevale, J. Ling, K. Aleksa, B. Kapur, D. Bagli, G. Koren

12h00 **O27.** Hair cortisol as a biomarker of psychotic relapse

K. Latuskie, A. Segev, G. Koren

12h15 – 14h00

Lunch

Session 10

14h00 – 14h30 **Clinical Treatment**
Lecture 10 **Marcelo Ribeiro**

14h30 **Round table of discussions**

Chairpersons Markus Baumgartner, Lolita Tsanaclis and Marcelo Ribeiro

15h30 – 16h00

Farwell Coffee break

16h00

Business meeting (SoHT members only)

19h00 – 22h00

Churrascaria

Poster Presentations

- P1.** Development and validation of an analytical method for the determination of ethylglucuronide in hair by LC-MS-MS
D. Oppolzer¹, M. Barroso², E. Gallardo¹
¹Centro de Investigação em Ciências da Saúde, Universidade da Beira Interior (Covilhã, Portugal); ²Instituto Nacional de Medicina Legal, Delegação do Sul (Lisboa, Portugal)
- P2.** EtG vs. FAEE concentrations in hair of a dialysis patient
D. Cappelle¹, C.L. Crunelle¹, S. Süße², M-M. Couttenye³, P. Michielsen⁴, M. Yegles⁵, A.L.N. van Nuijs¹, A. Covaci¹, H. Neels^{1,6}
¹Toxicological Center, University of Antwerp (Wilrijk, Belgium); ²DC Drogencheck GmbH (Ulm, Deutschland); ³Division Nephrology and Hypertension, University Hospital Antwerp (Edegem, Belgium); ⁴Division Gastroenterology and Hepatology, University Hospital Antwerp (Edegem, Belgium); ⁵Service de Toxicologie, Laboratoire National de Santé (Dudelange, Luxembourg); ⁶Laboratory of TDM and Toxicology, ZNA Stuivenberg (Antwerp, Belgium)
- P3.** Analysis of tetrahydroxylated-benzo[a]pyrene isomers in hair as biomarkers of exposure to benzo[a]pyrene
N. Grova, E.M. Hardy, B.M.R. Appenzeller
Laboratory of Analytical Human Biomonitoring, Luxembourg Institute of Health, (Esch sur Alzette, Luxembourg)
- P4.** Method development and validation for the determination of HCV protease inhibitors (boceprevir and telaprevir) and the nucleoside analogue ribavirin in human hair and plasma - Application to patient undergoing therapy
C. Chata¹, J.Y. Servais², C. Devaux², B.M.R. Appenzeller¹
¹Laboratory of Analytical Human Biomonitoring, Luxembourg Institute of Health (LIH, Esch-sur-Alzette, Luxembourg); ²Laboratory of Retrovirology, Luxembourg Institute of Health (LIH, Luxembourg)
- P5.** Testing for melatonin in human hair using HPLC-MS/MS: method development and validation and its application to authentic samples including a DFC children case
A-C. Jollain, N. Klingner, V. Cirimele
Laboratoire ChemTox, Illkirch, France
- P6.** Detection of 31 stimulant, Psychedelic and Dissociative Designer Drugs in Real Hair Samples
A. Salomone¹, G. Gazzilli¹, D. Di Corcia¹, E. Gerace¹, M. Vincenti^{1,2}
¹Centro Regionale Antidoping e di Tossicologia "A. Bertinaria", Regione Gonzole 10/1, 10043 Orbassano (TO), Italy; ²Dipartimento di Chimica, Università degli Studi di Torino, via P. Giuria 7, 10125 Torino, Italy