

# 29<sup>th</sup> Scientific Meeting of the SoHT

June 4 - 6, 2025



**SOCIETY  
OF HAIR  
TESTING**

# Meeting Program

## Wednesday 4th June 2025

14h00 – 17h00

**Board Meeting**

17h30 – 20h00

**Registration**

18h00 – 21h00

**Welcome Reception**

## Thursday 5th June 2025

08h30 – 09h00

**Registration**

08h45 – 09h00

**Opening Ceremony & Welcome Addresses**

09h00 – 09h45

**Invited Lecture**

**Advances & Future Perspectives in Hair Testing**

*Professor Dimitri Gerostamoulos*

- Department of Forensic Medicine, Monash University & Victorian Institute of Forensic Medicine, Victoria, Australia.
- Past President of The International Association of Forensic Toxicologists – TIAFT

09h45 – 10h00

**Major Challenges in Hair Testing**

Use the QR code provided to anonymously submit your opinion on the three major challenges in hair testing

10h00 – 11h00

**Session 1: Oral Presentations**

**O1. False-positive EtG immunoassay screening after exposure to aliphatic alcohols. LC-HRAM-Orbitrap-MS detection of C1-C6 EtG homologs in urine, chest and pubic hair samples**

*Camilla Vigato, Flavio Zancanaro, Novella Ghezzi, Giampietro Frison*

**O2. THC-COOH levels in hair as biomarker of chronic cannabis use, and correlation with self-reported extent of use**

*Vevelstad, M, Olsen, LH, Fosen, JT, Øiestad, ÅML, Krpo, M, Gudrun Høiseth*

**O3. Exploring the potential of steroid and endocannabinoid analysis in hair for assessing long-term stress exposure in various clinical settings**

*Clarissa D. Voegel, Lilian von Werd, Stefan Yu Bögli, Bea Latal, Emanuela Keller, Boris B. Quednow, Melanie Ehrler, Thomas Kraemer, Tina M. Binz*

**O4. Comparative Analysis of Tenofovir and Emtricitabine in Hair: Manual Hand Cutting Versus Pulverization Techniques**

*Hideaki Okochi, Leenie Chen, Alexander Louie, Leslie Z. Benet, and Monica Gandhi*

**O5. Challenges in the Interpretation of Isolated THC-COOH Detection in Hair: Forensic and Clinical Implications**

*Maria del Mar Ramirez Fernandez, Vincent di Fazio, Vincent Cirimele, Werner Jacobs, Sarah M.R. Wille*

11h00 – 11h45

**Coffee Break 1**

11h45 – 13h00

**Sponsor Presentation**

**O6. Optimised and Efficient SPE Workflow for Low Level Detection of the Alcohol Marker EtG in Hair via UPLC-MS/MS Analysis**

*Lee Williams, Zainab Khan, Lucy Richards, Thomas Smith, Adam Senior, Helen Lodder, Russell Parry, Geoff Davies, Alan Edgington, Charlotte Hayes, Claire Desbrow & Dan Menasco.*

**Session 2: Oral Presentations**

**O7. Influence of different washing hair procedures in the quantitative determination of THC and THCCOOH**

*Valentina Martini, Simone Cozzolino, Cristiana Stramesi, Claudia Vignali, Stefania Ortu, Paolo Franceschini, Ilaria Baudone, Gianfranco Petriccioni, Isa Mavi Sbarbaro, Cinzia Corsini, Paolo Bucchioni, Luca Morini*

**O8. Hair analysis of new psychoactive substances: investigating reporting thresholds and metabolite detection challenges**

*Hooi Yan Moy, Siti Aisyah Jamil*

**O9. Hair analysis by high-resolution mass spectrometry for NPS detection: focusing on fragmentation profiling and metabolic pathway prediction. Data processing strategies**

*José Manuel Matey, Luis Manuel Menéndez-Quintanal, Sergio Velazquez Romanos, Begoña Bravo Serrano*

**O10. Evaluation of the oxidative melanin markers PTCA and PTeCA in hair: LC-MS/MS method development and application in authentic hair samples**

*Christoph Leu, Thomas Kraemer, Tina M. Binz*

**O11. Sleeping your way through success: Drug-facilitated crime in the workplace**

*Salomé Riess, Aurélie Muckensturm; Ruben Goncalves; Olivier Roussel; Marjorie Chèze; Vincent Cirimele*

13h00 – 14h30

**Lunch Break 1**

14h30 – 15h30

**Session 3: Oral Presentations**

**O12. Development of a rapid method for PFAS determination in human hair**

*Justin Allen, Ashef Ameer, Teeshavi Acosta, Marta Concheiro, Ana Miguel Fonseca Pego.*

**O13. Chemical carcinogens in children living in Luxembourg**

*Franco Catuogno, Alba Iglesias-González, Brice M. R. Appenzeller*

**O14. Comprehensive analysis, comprehensive understanding: the benefit of widening the scope to uncover the complexity of human chemical exposome and tailor personalized risk assessment**

*Alba Iglesias-Gonzalez & Brice MR Appenzeller*

**O15. Influence of parental socioeconomic status on children's chemical exposure disparities: The role of professional occupation in Luxembourg using hair analysis**

*Alba Iglesias-González, Paul Palazzi, Franco Catuogno, Brice M.R. Appenzeller*

**O16. Influence of permanent chemical straightening on the interpretation of endogenous GHB and alprazolam hair results**

*Miriam Blanco-Ces, Ana de-Castro-Ríos, Angelines Cruz, Ángela López-Rabuñal, María Cobo-Golpe, Manuel López-Rivadulla, Elena Lendoiro*

15h30 – 16h00

Coffee Break 2

16h00 – 17h00

## Session 4: Oral Presentations

**O17. Evaluation of PTeCA (1-H-pyrrole-2,3,4,5-tetracarboxylic acid) in in vivo and in vitro hair matrix as a marker of oxidative cosmetic treatment**

S. Casati, A. Ravelli, R. F. Bergamaschi, A. Magliocco, M. Orioli<sup>2</sup>, G. Roda, A. Battistini

**O18. Evaluating the Presence of Dehydronorketamine in the Hair as a Marker for Ketamine Use**

Zhang HuiFen Hannah, Yong Ching Yee Christy, Chan Si Jia, Moy Hooi Yan, Lui Chi Pang

**O19. Hair Analysis in Psychiatric Patients**

Donata Favretto, Clara Cestonaro, Alice Costantini

**O20. Analysis of Drugs of Abuse and Contaminants in Individuals Under Drug Surveillance Programs: A Study in Hair Samples**

A.Y. Simão, P. Y. Tokuyama, G. Zampieri, V. Rocha, C. Madruga, K. Isicawa, L. S. Cidade, K. R. Almeida, N. R. da Silva, M. Barroso, M. Andraus, E. Gallardo

**O21. Metabolomic Analysis of Hair from Heroin and Methamphetamine Users**

Zhang Wenji, Xia Xinxin, Zhang ting

19h00 – 22h30

Gala Dinner at The Royal Society

## Posters Presentations

*Authors should be available next to poster for questions for a minimum of 30 minutes on:*

June 6<sup>th</sup> Coffee Break 1

**P1. Comparison of a semi-quantitative immunoenzymatic method and confirmation LC-MS/MS method for the extraction of the EtG from hair**

Giulia Pagano, Giulia Stocchero, Antonio Cambria, Cambria Antonio, Giovanni Michele Marchio, Flora Donini<sup>1</sup>, Francesco Ingenito, Lucia Bertoldi, Cristiana Fait, Lucia Pecoraro, Adriano Anesi, Alberto Salomone, Donata Favretto

**P2. Hair of the herd: cattle hair as a sentinel for human exposure to pesticides**

Ashna Lallmahomed, Christine Monfort, François Beaudeau, Laura Le Martelot, Justine Kergavarat, Fabien Mercier, Cécile Chevrier, Arthur David

**P3. Analysis of D9-tetrahydrocannabinol, cannabidiol, cannabinol and 11-nor-D9-tetrahydrocannabinol-9-carboxylic acid in hair by LC-MS/MS: combination of MRM and MS3 modes**

Burqueño, M José; Ayuso-Tejedor, Sara; Quintela, Oscar; Bueno, José R; Baeza, Irene; Megía, Carmen; Díaz, Rocío; Bravo, Begoña.

**P4. The Detection of Δ9-THC, Δ8-THC, Δ10-THC and CBD in Keratinized Specimens**

Amy Racines, Katie Lea, Donna Coy, Joseph Jones, Mary Jones

**P5. Method Development Strategies for Low Level Detection of EtG in Hair Using UPLC-MS/MS Analysis**

Lee Williams, Zainab Khan, Lucy Richards, Thomas Smith, Adam Senior, Helen Lodder, Russell Parry, Geoff Davies, Alan Edgington, Charlotte Hayes, Claire Desbrow & Dan Menasco.

### June 5<sup>th</sup> Lunch Break 1

**P6. Hair analysis as the sole method to confirm methamphetamine use in a stroke-related death case**

Serena Mestria, Giulia Biosi, Sara Odoardi, Chiara Capriotti, Valeria Valentini, Sabina Strano Rossi

**P7. Evaluation of Methadone (MD) to 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) Ratio Variation in Segmental Head Hair Analysis in Family Law Cases**

Eleanor I Mille<sup>1</sup>, Peter D Maskell, David Nicholson and Vincent Cirimele

**P8. Only One Step: A Novel Refrigerator-Cooled Homogenization Protocol Enhancing Efficiency and Robustness in Hair Drug Testing**

Ping Xiang, Hang Chen, Xin Wang

**P9. Quantitative Analysis of Cannabinoids in Hair Using Liquid-Liquid Extraction and LC-MS/MS**

Mónica Antunes, Susana Simões, Suzana Fonseca, João Franco, Eugenia Gallardo, Mário Barroso

**P10. Development and validation of UHPLC-MS/MS method for the quantification of 12 nitazenes, bupropion, fentanyl, xylazine and 4-hydroxy-xylazine in hair**

Marta Massano, Consuelo Bridda, Enrico Gerace, Alberto Salomone

### June 5<sup>th</sup> Coffee Break 2

**P11. Comprehensive Evaluation of Cocaine and its Hydroxy Metabolites in Seized Cocaine and a Large Cohort of Hair Samples**

Milena M. Madry, Teresa Denifle, Markus R. Baumgartner, Christian Bogdal, Thomas Kraemer, Tina M. Binz

**P12. Retrospective Analysis of Hair Samples Positive for Drugs in Pakistan**

Humera Shafi Makhdoom, Zeerak Abbas, Nadeem Ul Hassan Khan, Mehak Naveed, Omar Chughtai, Akhtar Sohail Chughtai

**P13. Development of a Comprehensive Chromatographic Method for the Detection of Narcotics and Psychoactive Substances in Hair and Biological Matrices**

C.Pareja-Torres, T. Huertas, A. Pino-Tarragona, A. González-Padrón

**P14. Extraction and Analysis of a Comprehensive Quantitative Drug Panel in Hair Samples by UPLC-MS/MS for Forensic Toxicology**

Emily Lee, Nayan Mistry, Jonathan P Danaceau and Lisa J Calton

**P15. Pesticide Contamination in the Hair of Children from Colonia San Juan, a Rural Community in Paraguay**

Stela Benitez Leite, Alba Iglesias-Gonzalez, Mirta Noemí Mesquita, María Luisa Macchi, Robin Mesnage, Brice M.R. Appenzeller

### June 6<sup>th</sup> Coffee Break 3

**P16. Evaluation and comparison of sensitivity of alcohol biomarkers PEth, EtG and EtPa in civil cases in England 2022–2023**

Sharnette Ashiru, Jamie Banham, Ethan Webster, Lili Saskoy, Gavin Trotter, Mathew Wade, Brian Rooney.

**P17. Key Role of Keratin Matrix in Toxicological Analysis to Determine the Cause of Death of a Poly-Drug Addict**

Binda Maddalena, Angeli Ilaria, Di Francesco Carlotta, Meda Valentina, Minoli Mauro, Battistini Alessio, Roda Gabriella

**P18. Correlation between alcohol consumption and phosphatidylethanol detection by both venous and dry blood spot testing**

A. John, D. Muldoon

**P19. Positivity rates and concentration levels of drugs of abuse and ethylglucuronide (EtG) detected in the hair of subjects undergoing license regranting**

Giulia Biosi, Serena Mestria, Sara Odoardi, Valeria Valentin, Chiara Capriotti, Sabina Strano Rossi

**P20. Hair Growth Rate and Drug Deposition Correlation across Ethnicities**

Muhammad Imran, Nadeem Ul Hassan Khan

**June 6<sup>th</sup> Lunch Break 2**

**P21. Retrospective study of poly-drug and alcohol use in the UK (2024 - 2025)**

Abduselam Mohammed, Jayne Hazon, Robert Bradley

**P22. Experimental-based evaluation of inter- and intra-individual variability of endogenous hair GHB**

Murari Matilde, Rinaldi Romolo, Casini Carlotta, Bortolotti Federica, Gottardo Rossella

**P23. Increased prevalence of  $\alpha$ -PHP and  $\alpha$ -PiHP as drug of abuse in chemsex**

Marta Vázquez, Alberto Córdoba, Marta Sánchez, Tamara Khazooz and Nuria Sanvicens.

**P24. Drugs of abuse in hair, a straightforward chromatographic method using the MassTox<sup>®</sup> kit from Chromsystems**

Delphine Cappelle, Evi van den Steen, Nele Pincé, Lisbeth Patteet

## Friday 6th June

09h30 – 10h30

### Session 5: Oral Presentations

**O22.A Statistical Review of Results Obtained from Casework Samples Against Declared Drug Use**

D. Muldoon; A. John

**O23.Interpretation criteria in hair analysis – Urgent need for education and uniform implementation of the consensus on drugs of abuse testing**

Van Uytfanghe Katleen, Stove Christophe

**O24.The LOD and LOQ Dilemma in Human Biomonitoring Data Reporting: Different Needs for Different Fields**

Linda R Macheka, Brice MR Appenzeller

**O25.Can we measure a single dose of antihistamine in hair after intake?**

Jan Bílek, Marie Katrine Klose Nielsen, Robert Kronstrand, Sys Stybe Johansen

**O26.Recreational Drug Use at a Music Festival: A Dual Approach Using Hair Biomarkers and Participants' Feedback**

Ana Simão, Tiago Rosado, Mário Barroso, Maristela Andraus, Eugenia Gallardo

10h30– 11h30

### Coffee Break 3

11h30 – 12h30

### Session 6: Oral Presentations

**O27.Hair as a valuable biospecimen for hormone assessment: Inter-relationships across biobehavioral biomarkers**

Allissa L. Van Steenis, Wen Wang, Brandon L. Smith, Elizabeth A. Shirtcliff,

**O28.Hair as a Biomarker of Cumulative Sex Hormone Exposure: Evidence from Young Adult Women**

Wen Wang, Allissa Van Steenis, Jeff Kiesner, Elizabeth A Shirtcliff

**O29.The Effect of Dye Colour on Illicit Drug and Metabolite Levels in Chemically Treated Hair**

Amy Duda

**O30. Be the Reference: Certified Reference Materials for Clinical and Forensic Testing Applications**

André Filipe Santarém Silva

12h30 – 14h00

### Lunch Break 2

**14h00 – 15h00**

**Major Challenges in Hair Testing – Open Discussion**

**Moderator: Robert Kronstrand**

This session will present a synthesis of the key issues identified by participants during the conference, focusing on the major challenges facing the field of hair testing.

The discussion aims to further develop these points and explore potential future directions for research and application.

The session will serve as a platform to consolidate ideas, foster collaboration, and guide strategic priorities for the SoHT and the broader scientific community.

**15h00 – 15h15**

**Best poster and oral presentation awards**

**15h15 – 15h45**

**Short Coffee Break 4**

**15h45 – 17h00**

**SoHT General Assembly - SoHT Members only**

- Election of the board
- New Board Meeting

**17h00 – 23h00**

**Farwell Drinks Pub – McMullen Brewing**

Join us for a relaxed farewell gathering to toast the end of the meeting. Enjoy local brews, good company, and informal conversations to wrap up the event on a warm and convivial note.

The McMullen Brewing is 7 minutes walking from the Royal Society