

PROGRAMME

Sunday 14 June: Participants arrival. City Tour. Dinner

Monday 15 June:

9.00 Opening: **E. Garaci, P. Zuccaro**

9.15 Welcome by **S. Pichini**, congress host and **P. Kintz**, President of Society of Hair Testing

9.30 Plenary Lecture of **S.D. Ferrara** on Non-invasive biological matrices and forensic evidence

10.00 Session: Hair Testing in Forensic Toxicology.
Chairs: **C. Jurado, P. Kintz**

Oral presentations on forensic applications of hair testing for drugs of abuse

10.45 coffee break and poster session chaired by **C. Moore, R. Kronstrand**

11.20 Oral presentations on novel methodologies of hair testing for drugs of abuse

13.00 Lunch

14.00 Discussion with the speakers and experts regarding problems most commonly encountered in hair testing and doubts among applications and data interpretations.

Moderators: **C. Moore, R. Kronstrand**

15.00 Session: Expansion of Drug Profiles in Alternative Matrices.
Chairs: **C. Staub, M. Uhl**

R.Kingston. An Overview of Ethyl Glucuronide Testing at Concateno TrichoTech.

J. Wicks. Drug Testing Using Hair: Addressing Client's Expectations

C. Moore. Oral fluid: Overcoming problems associated with routine analysis

C. Moore. Semi-quantitative Determination of THC in Hair using Immunoassay

J. Gareri. Clinical & Research Applications for Immunoassay in Neonatal Drug Testing

16.30 Business Meeting

Tuesday 16 June:

9.00 Plenary Lecture of **P. Kintz** on Hair Testing in Clinical Pharmacology.
Interpretation of hair findings in children after methadone poisoning

9.30 Session: Hair testing in clinical pharmaco-toxicology.

Chairs: **S.Pichini, R. de la Torre**

Oral presentations

10.30 coffee break

11.00 Plenary Lecture of **F. Pragst** on Combined use of FAEs and EtG in hair for diagnosis of chronic excessive alcohol consumption. Interpretation and Advantages.

11.30 Session: Alcohol markers in hair.

Chairs: **M. Yegles, F. Pragst**

Oral presentations

12.50 Discussion of the Consensus of Society of hair testing on hair testing for chronic excessive alcohol consumption

Moderators: **H. Sachs, P. Kintz**

13.30 Lunch

14.30 Plenary Lecture of **S. Pichini** on Drug testing in other alternative biological matrices

15.00 Session: Testing in other alternative biological matrices.

Chairs: **R. Pacifici, A. Luna**

Oral presentations

16.00 Conclusions and announcement of awards for the best oral and poster presentations

SPEAKERS and CHAIRPERSONS

R. de la Torre -Institut Municipal d'Investigatiò Mèdica (IMIM– Hospital del Mar), Barcelona, Spain

S.D. Ferrara – Forensic Toxicology, University of Padova, Padova

E. Garaci – President, Istituto Superiore di Sanità, Roma

C. Jurado- Instituto Nacional de Toxicología, Sevilla, Spain

M. Yegles- Laboratoire National de Santé, Toxicologie, Luxembourg

P. Kintz – President SoHT, Laboratoire ChemTox, Illkirch, France

R. Kronstrand - National Board of Forensic Medicine, Linköping, Sweden

A. Luna- Universidad de Murcia, Murcia, Spain

C. Moore- Immunalysis Corporation, Pomona, U.S.A.

R. Pacifici– Istituto Superiore di Sanità, Roma

S. Pichini – Istituto Superiore di Sanità, Roma

F. Pragst - Institute of Legal Medicine, University Hospital Charité, Berlin

H. Sachs – FTC, München, Germany

C. Staub- West Switzerland University Centre of Legal Medicine, Geneva, Switzerland

M. Uhl - Bayerisches Landeskriminalamt, München, Germany

P. Zuccaro - Istituto Superiore di Sanità, Roma

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GENERAL INFORMATION

Venue

Aula Pocchiari,
Istituto Superiore di Sanità
V.le Regina Elena, 299
00161 Roma

Conference Language

English.

How to get there:

From Termini railway station: Bus N° 310
From the Fiumicino airport: 25 Km far from the city
centre.
Train to Termini railway station and bus N° 310
Taxi (cost about € 50,00)

ORAL PRESENTATIONS AND POSTERS

Hair Testing in Forensic Toxicology.

1. Non-invasive biological matrices and forensic evidence: Plenary Lecture.

S.D. Ferrara

Tossicologia Forense, Università di Padova, Padova, Italy

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Oral presentations on forensic applications of hair testing for drugs of abuse

2. Hair analysis for drugs in driver's licence regranting. The first Swedish evaluation.

I. Nyström¹, K. Käll², M. Forsman¹, R. Kronstrand¹

¹National Board of Forensic Medicine, Dep. Forensic Toxicology, Linköping, Sweden; ²Clinic for Dependency Disorders, University Hospital, Linköping, Sweden

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3. Drug Enforcement Administration (DEA) traffics in drugs of abuse.

M. Villain, V. Cirimele, P. Kintz

Laboratoire ChemTox, Illkirch, France

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4. A tendency for re-offending in drug-facilitated crime.

M. Chèze, M. Deveaux, A. Lenoan, G. Pépin

Laboratoire TOXLAB, Paris, France

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5. Hair analysis for Δ^9 -tetrahydrocannabinolic acid A – new insights into the mechanism of drug incorporation of cannabinoids into hair.

V. Auwärter, J. Jung, J. Traber, W. Weinmann

Institute of Forensic Medicine, University Medical Centre Freiburg, Albertstr. 9, 79104 Freiburg, Germany

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Oral presentations on novel methodologies of hair testing for drugs of abuse

6. High throughput analysis of drugs of abuse in hair by combining purposely designed sample extraction compatible with immunometric methods used for drug testing in urine.

R. de la Torre¹, E. Civit¹, F. Svaizer², A. Lotti², M. Gottardi², M. Miozzo²

¹Institut Municipal d'Investigació Mèdica (IMIM– Hospital del Mar), Human Pharmacology and Clinical Neurosciences Research Group, Barcelona, Spain; ²Laboratorio di Sanità Pubblica (LSP) – Azienda Provinciale Servizi Sanitari, Trento, Italy

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7. Hydrophilic interaction liquid chromatography (HILIC) determination of ecgoninemethylester in hair as a marker of cocaine consumption.

O. Quintela¹, E. Lendoiro¹, A. Cruz¹, A. de Castro¹, C. Jurado², M. López-Rivadulla¹.

¹Forensic Toxicology Service, Institute of Legal Medicine, University of Santiago de Compostela, Spain.; ²Instituto Nacional de Toxicología y Ciencias Forenses, Sevilla, Spain.

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8. Incorporation of Codeine into Hair from External Contamination.

J. Beyer, V. Staikos, D. Gerostamoulos, O.H. Drummer

Victorian Institute of Forensic Medicine, Department of Forensic Medicine, Monash University, Melbourne, Australia

9. Hair testing for a broad range of psychoactive substances by liquid chromatography -high resolution mass spectrometry.

G. Frison, D. Favretto, S. Vogliardi, G. Stocchero, F. Castagna, S. Maietti, S.D. Ferrara
Tossicologia Forense, Università di Padova, Padova, Italy

10. Hair analysis for the monitoring of human exposure to polycyclic aromatic hydrocarbons – First determination of PAH metabolites in hair.

B. M. R. Appenzeller¹, C. Schummer^{1,2}, M. Millet², R. Wennig¹

¹ Laboratoire de Toxicologie, Centre de Recherche Public – Santé / Laboratoire National de Santé ;
Université du Luxembourg, Luxembourg; ² Laboratoire des Matériaux, Surfaces et Procédés pour la
Catalyse, Équipe de Physico-Chimie de l'Atmosphère (UMR 7515 CNRS-Université Louis
Pasteur), Strasbourg, France

11. Simultaneous analysis of multiple agricultural pesticides in hair of occupationally exposed humans.

C. Schummer^{1,2}, B. M. R. Appenzeller¹, M. Millet², R. Wennig¹

¹ Laboratoire de Toxicologie, Centre de Recherche Public – Santé / Laboratoire National de Santé ;
Université du Luxembourg, Luxembourg; ² Laboratoire des Matériaux, Surfaces et Procédés pour la
Catalyse, Équipe de Physico-Chimie de l'Atmosphère (UMR 7515 CNRS-Université Louis
Pasteur), Strasbourg, France

12. LC-MS-MS detection of Flunitrazepam and its metabolites 7-aminoflunitrazepam and 7-aminodesmethylflunitrazepam in hair after a single oral dose.

M. Forsman, I. Nyström, M. Roman, L. Berglund, J. Ahlner, R. Kronstrand.

National Board of Forensic Medicine, Department of Forensic Toxicology, Linköping, Sweden

POSTERS SESSION. Hair testing for drugs of abuse

13. Strychnine in Hair – a Case Report.

J. Beyer, V. Staikos, P.J. Bedford, D. Gerostamoulos, O.H. Drummer

Victorian Institute of Forensic Medicine, Department of Forensic Medicine, Monash University,
Melbourne, Australia

14. CEDIA immunochemical screening of drugs of abuse in hair.

R. Donghi, M. Nasello, D. Pilato, N. Cattai

Laboratorio Di Sanità Pubblica - A.S.L. Della Provincia Di Lecco, Lecco, Italy

15. Retrospective evaluation of amphetamine use through hair analysis in patients admitted by the medical committee for driving licence regranting.

U. Andreotta¹, V. Crespi¹, A. Zippo¹, M.M. Ferrario^{1,2}

¹ Laboratorio di Tossicologia, UO Medicina del Lavoro e Preventiva, Ospedale di Circolo e
Fondazione Macchi, Varese, Italy; ² Dipartimento di Scienze Cliniche e Biologiche, Università degli
studi dell'Insubria, Varese, Italy

16. Buprenorphine detection in hair samples by immunometric screening test. Preliminary experience.

F.Svaizer, A. Lotti, M. Gottardi, M. Miozzo.

Laboratorio Sanità Pubblica, Trento, Italy

17. CEDIA® assays for drugs of abuse: application in hair analysis.

C. Stramesi, M. Polla, A. Zucchella, , G. Collo, F. Pozzi, C. Vignali, A. Groppi
Department of Legal Medicine, Forensic Science and Pharmacotoxicology, University of Pavia,
Pavia, Italy

18. Analysis of 11-nor-9-carboxy-delta 9-tetrahydrocannabinol in hair by liquid chromatography-mass spectrometry.

M. Brambilla¹, S. Cristoni², E. Gonella¹, P.M Gerthoux³, M. Bertona¹, L. D'Amato¹, P. Mocarrelli¹, P. Brambilla¹

¹University Department of Laboratory Medicine, Hospital of Desio, Desio, Italy; ²ISB, Ion Source and Biotechnology, Milano, Italy; ³Department of Laboratory Medicine, Hospital of Sesto San Giovanni, Sesto San Giovanni, Italy

19. Solid-phase microextraction for the detection of codeine, morphine, and 6-acetylmorphine in human hair by gas chromatography-mass spectrometry.

M. Moller^{1,2}, K. Aleksa¹, P. Walasek¹, T. Karaskov¹, G. Koren^{1,2}

¹Motherisk Program, Division of Clinical Pharmacology & Toxicology, Hospital for Sick Children, ²Department of Pharmacology & Toxicology, University of Toronto, Toronto, Ontario, Canada

20. Screening and quantification of 52 common pharmaceuticals and drugs of abuse in hair using ion spray UPLC-TOF-MS.

M. K. K. Nielsen, S. S. Johansen, P. W. Dalsgaard, K. Linnet

Section of Forensic Chemistry, Department of Forensic Medicine, Faculty of Health Sciences, University of Copenhagen, Frederik Copenhagen, Denmark.

21. Rapid and simple determination of psychotropic phenylalkylamine derivatives in human hair by gas chromatography/mass spectrometry using micropulverized extraction

J. Y. Kim, S. H. Shin, J. I. Lee, M. Kyo In

Drug Analysis Laboratory, Forensic Science Division, Supreme Prosecutors' Office, Seoul, Korea.

Expansion of Drug Profiles in Alternative Matrices.

Oral presentations on expansion of Drug Profiles in Alternative Matrices.

22. An overview of ethyl glucuronide testing at Concateno TrichoTech.

R. Kingston and C. Jones.

Concateno TrichoTech, Cardiff, Wales, UK

23. Drug testing using hair: addressing client's expectations.

J. Wicks¹, R. Atkinson², E. Fiori¹

¹Cansford, Cornwall, UK; ²Atkinson & Lewis, Swansea, Wales, UK

24. Oral fluid: Overcoming problems associated with routine analysis.

C. Moore, M. Vincent, J. Soares

Immunoanalysis Corporation, Pomona, CA, USA

25. Semi-quantitative determination of THC in hair using Immunoassay.

C. Coulter, J. Tuyay, M. Taruc, C. Moore

Immunoanalysis Corporation, Pomona, CA, USA

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26. Clinical & Research Applications for Immunoassay in Neonatal Drug Testing.

J. Gareri, Motherisk Laboratory, Division of Clinical Pharmacology & Toxicology, Hospital for Sick Children, Toronto, Canada

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Hair testing in clinical pharmacology

27. Hair testing in clinical pharmacology. Interpretation of hair findings in children after methadone poisoning. Plenary Lecture.

P. Kintz¹, M. Villain¹, J. Evans², V. Cirimele¹

¹Laboratoire ChemTox, Illkirch, France; ²Eurofins Forensic Services, UK

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Oral presentations on hair testing in clinical pharmacology

28. Changes in antidepressant metabolism in pregnancy evidenced by metabolic ratios in hair: a novel approach.

L. O'Brien^{1,2}, C. Baumer³, D. Thieme^{3,4}, H. Sachs PhD.^{3,4}, G. Koren M.D.^{1,2,5}

¹ Division of Clinical Pharmacology and Toxicology, Hospital for Sick Children, Toronto; ² Institute of Medical Science, University of Toronto; ³ Forensic Toxicological Centre, Munich, Germany; ⁴ Institute of Forensic Medicine, Munich, Germany; ⁵ Department of Pediatrics, Hospital for Sick Children, Toronto

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29. Determination of diazepam and its metabolites nordiazepam and temazepam in neonates and their mothers hair.

R. Stanaszek¹, W. Lechowicz¹, E. Florek², W. Piekoszewski³, E. Grzegorz¹, H. Breborowicz⁴

¹Institute of Forensic Research, Kracow, Poland; ²Laboratory of Environmental Research, Department of Toxicology, University of Medical Science Poznan, Poland; ³Department of Analytical Chemistry, Jagiellonian University, Krakow, Poland; ⁴Perinatology and Gynecology Clinic, University of Medical Sciences, Poznan, Poland

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30. Increased hair cortisol levels in patients with acute myocardial infarction.

R. Gow¹, D. Pereg⁸, G. Koren^{2,3,5,7}, M. Rieder^{2,4,5}, S. Van Uum^{5,6}

¹ Dept. of Physiology and Pharmacology, ²Pediatrics and Physiology/Pharmacology, ³Ivey Chair in Molecular Toxicology, ⁴CIHR-GSK Chair in Pediatric Clinical Pharmacology, Children's Health Research Institute, ⁵Dept. of Medicine, ⁶Lawson Health Research Institute, Schulich School of Medicine and Dentistry, University of Western Ontario, London, Ontario, ⁷Div. of Clinical Pharmacology/Toxicology, Hospital for Sick Children, Toronto, Canada; ⁸Dept of Internal Medicine A and Cardiology division, Meir Medical Center, Kfar Sava, Israel

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31. High resolution mass spectrometry to evidence gestational exposure to venlafaxine.

D. Favretto, G. Stocchero, S. Vogliardi, G. Frison, F. Zancanaro, A. Nalesso, S.D. Ferrara
Tossicologia Forense, Università di Padova, Padova, Italy

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POSTERS SESSION. Hair testing in clinical pharmacology

32. Assessment of fetal and childhood exposure to cigarette smoke after recent implementations of smoke-free policy by hair, urine and cord blood testing.

M. Pellegrini¹, MC. Rotolo¹, S. La Grutta², F. Cibella², S. Di Carlo¹, A. Bacosi¹, O. Garcia-Algar³, R. Pacifici¹, S. Pichini¹

¹ Department of Therapeutic Research and Medicines Evaluation, Istituto Superiore di Sanità, Rome, Italy, ² Consiglio Nazionale delle Ricerche, Istituto di Biomedicina e Immunologia Molecolare, Palermo, Italy; ³Paediatric Service, URIE, Hospital del Mar, and Universitat Autònoma, Barcelona, Spain

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33. Hair and serum testing for drugs of abuse in women requesting voluntary termination of pregnancy.

M. Falcon¹, M. Pellegrini², MC. Rotolo², S. Pichini², R. Pacifici², J. Joya³, O. Vall³, O. García Algar³, A. Luna¹.

Legal Medicine. University of Murcia, Spain; ²Istituto Superiore di Sanità, Rome, Italy; ³Paediatric Service, URIE, Hospital del Mar, and Universitat Autònoma, Barcelona, Spain.

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34. Validation of an analytical method for detection of benzodiazepines and other psychotropic drugs in human hair by GC/MS.

M. Bernini, S. Manzoni, E. Saligari, S. Vezzoli

Università degli studi di Brescia/Spedali Civili -Medicina Legale, Brescia, Italy

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Alcohol markers in hair

35. Combined Use of FAEE and EtG in Hair for Diagnosis of Alcohol Abuse. Interpretation and Advantages. Plenary lecture

F. Pragst¹, M. Rothe², S. Herre¹, D. Simmert¹, M Hastedt¹

¹ Institute of Legal Medicine, University Hospital Charité, Berlin, Germany; ² Lipidomix GmbH, Berlin, Germany

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Oral presentations on Alcohol markers in hair

36. Validation of a gas chromatography-negative chemical ionization tandem mass spectrometry method for the determination of ethyl glucuronide in hair : use of accuracy profiles and real quality controls.

H. Kharbouche, F. Sporkert, M. Augsburg, C. Staub

West Switzerland University Centre of Legal Medicine, Lausanne and Geneva, Switzerland

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37. Ethyl glucuronide in hair as a marker of chronic ethanol abuse in comparison with CDT in serum.

L. Morini¹, L. Politi², S. Acito¹, A. Groppi¹, A. Poletti³

¹Department of Legal Medicine and Public Health, University of Pavia, Pavia, Italy; ²Department of Anatomy, Histology, and Legal Medicine, University of Florence, Florence, Italy; ³Department of Medicine and Public Health, University of Verona, Verona, Italy

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38. Chemometric evaluation of alcohol biomarkers: the prevalence of ethylglucuronide in hair for determining chronic assumption.

A. Salomone, D. Di Corcia, R.A. Salvo, A. Mastrone, A. Albarello, V. Valente, M. Petrarulo, S. Pellegrino, A. De Bernardis, M. Vincenti

Centro Regionale Antidoping "A.Bertinaria", Orbassano, Torino, Italy

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39. Routine Testing of Ethyl glucuronide in Hair validated according to Forensic Guidelines

R. Agius, T. Nadulski, H.G. Kahl, B. Dufaux

Laboratory Dr. Krone & Partner, Bad Salzflun, Germany

40. Ethyl glucuronide determination in hair: role of lotions containing ethanol.

M. Yegles, S. Schneider, R. Wennig

Laboratoire National de Santé – Toxicologie, Université du Luxembourg, Luxembourg

41. Ethyl Glucuronide (EtG) in Hair: A Comparison between Self-declared Alcohol Consumption and EtG-Concentration.

A. Boss, M.R. Baumgartner, P. Lemmer, M. Haag

Institute of Legal Medicine, University of Zurich, Switzerland

42. Results of the first ethyl glucuronide proficiency test.

F. Sporkert, C. Staub, H. Kharbouche

West Switzerland University Centre of Legal Medicine, Lausanne and Geneva, Switzerland

POSTERS SESSION. Alcohol markers in hair

43. Fatty acid ethyl ester concentrations in hair and self-reported alcohol consumption in 644 cases from different origin.

S. Süße¹, C. M. Selavka², T. Mieczkowski³, F. Pragst⁴

¹ Trimega Drogencheck, Ulm, Germany; ² 9 Hollywood drive, Charlton, MA 01507, USA; ³Department of Criminology, University of South Florida, USA; ⁴Institute of Legal Medicine, Berlin, Germany

44. Consensus of the Society of Hair Testing on hair testing for chronic excessive alcohol consumption

Testing in other alternative biological matrices

45. Drug testing in other non conventional matrices. Usefulness of oral fluid and sweat for measurement of methylphenidate and ritalinic acid. Plenary lecture

S. Pichini¹, E. Marchei¹, M Farrè², M. Pellegrini¹, Ó. García-Algar³, O. Vall³, P. Zuccaro¹,

¹Department of Therapeutic Research and Medicines Evaluation, Istituto Superiore di Sanità, Rome, Italy, ²Bioanalysis and Analytical Services Research Group, Neuropsychopharmacology Program, Institut Municipal d'Investigació Mèdica IMIM-Hospital del Mar and Universitat Autònoma, Barcelona, Spain; ³Unitat de Recerca Infància i Entorn (URIE), Paediatric Service, IMIM-Hospital del Mar, Barcelona, Spain

Oral presentations on Testing in other alternative biological matrices

46. Looking for meconium and hair ethyl glucuronide and ethyl sulfate as potential markers of intrauterine exposure to alcohol.

L. Morini¹, E. Marchei², F. Vagnarelli³, O. Garcia Algar⁴, A. Groppi¹, P. Zuccaro², S. Pichini²

¹Department of Legal Medicine and Public Health, University of Pavia, Pavia, Italy; ²Department of Therapeutic Research and Medicine Evaluation, Istituto Superiore di Sanità, Roma, Italy; ³Arcispedale Santa Maria Nuova, Reggio Emilia, Italy; ⁴Unitat de Recerca Infància i Entorn (URIE), Paediatric Service, IMIM-Hospital del Mar, Barcelona, Spain

47. Drugs abuse in saliva: screening by biochip system and direct injection in LC/MS/MS.

S. Martello, M. Chiarotti

Laboratorio Analisi Tossicologiche, Università Cattolica Sacro Cuore, Roma

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48. Fetal exposure to illicit drugs in the first trimester of gestation by analysis of placental tissue.

X.Joya^{1,2}, E.Civit², M. Falcón³, O.Garcia-Algar^{1,2}, O.Vall^{1,2}, S. Pichini⁴, A.Luna³, R. De la Torre²

¹ Unitat de Recerca Infància i Entorn (URIE), Paediatric Service, IMIM-Hospital del Mar, Barcelona, Spain; ²Neuropsychopharmacology Program, Institut Municipal d'Investigació Mèdica IMIM-Hospital del Mar, Barcelona, Spain; ³Departamento de Medicina Forense, Universidad de Murcia, Murcia, Spain; ⁵Department of Therapeutic Research and Medicines Evaluation, Istituto Superiore di Sanità, Rome, Italy

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49. Analytical aspects of ethyl glucuronide in meconium and hair: GC-MS-NCI or LC-MS/MS

A. L.N. van Nuijs¹, I. Tarcomnicu¹, K. Aerts¹, M. De Doncker², A.Covaci¹, H. Neels¹

¹Toxicological Centre, Department of Pharmaceutical Sciences, University of Antwerp (UA), Wilrijk-Antwerp, Belgium; ²Laboratory of Toxicology, ZNA Stuivenberg, Antwerp, Belgium

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POSTERS SESSION. Testing in other alternative biological matrices.

50. Alcohol and illicit drugs in oral fluid/other biological matrices of inpatients in emergency hospitalized for acute intoxication.

R. Borriello¹, P. Cassandro¹, I. Cilento², E. Di Florio², C. Volpe²

¹Department of Public, Clinical and Preventive Medicine, Laboratory of Forensic Toxicology, Second University of Naples (SUN); Napoli, Italy; ²Antipoisons Center of Naples – Anaesthesiology and Reanimation Unit, AORN “A. Cardarelli”, Napoli, Italy

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51. Post-mortem hair and adipose tissue: comparison of two biological alternative matrices to reveal illicit drug abuse.

A.P. Colucci, L. Aventaggiato, R. Gagliano-Candela

Forensic Toxicology Chair, Legal Medical Section, Department Internal Medicine and Public Health, University of Bari, Italy

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52. Determination of opiates in the spinal cord of a charred corpse.

K. Bisogni, F. Bonacci, S. Maurotti, S. Melina, L.Rivalta, P. Seminara

ASP Catanzaro Laboratorio di Tossicologia Forense, Catanzaro, Italy

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