

**Société Française de Toxicologie Analytique (SFTA) 16th annual meeting,
The International Association of Forensic Scientists (TIAFT) 46th international meeting,
& Society of Hair Testing (SoHT) annual meeting**

Schoelcher, Martinique, French West Indies, June 2-8, 2008

*16^{ème} congrès annuel de la Société Française de Toxicologie Analytique (SFTA),
46^{ème} congrès de The International Association of Forensic Scientists (TIAFT),
& congrès annuel de la Society of Hair Testing (SoHT)*

Schoelcher, Martinique, Antilles françaises, 2-8 juin 2008

SCIENTIFIC PROGRAM



Tuesday, June 3

Congrès de la SFTA



8.45 - 10.30

Toxicologie hospitalière, 1^{ère} partie

Modérateurs: Guillaume HOIZEY et Patrick NISSE

1. Prise en charge d'un état d'agitation aux Urgences

F. LAPOSTOLLE, C. LAPANDRY, F. ADNET

2. Psychose et cannabis, mythe ou réalité?

A. CHARLES-NICOLAS, J. LACOSTE, H. DELAVENNE, N. BALLON

3. Dosage de l'association chloroquine-proguanil (Savarine®) sur spots de sang séché

P. HOUZÉ, I. SOULETIE, S. HOUZÉ, J. LE BRAS, B. GOURMEL

4. Détection quantitative d'éthyle glucuronide dans la sueur

B.M.R. APPENZELLER, C. SCHUMMER, R. WENNIG

5. Apport de la toxicologie analytique au diagnostic de l'origine « factice » d'un trouble métabolique : applications aux cas des agents hypoglycémisants et diurétiques

G. HOIZEY, G. BARRANDE, T. TRENQUE, L. BINET, D. LAMIABLE

6. Intoxication mortelle avec une infusion de feuilles de chêne et des médicaments

S. BOUCHET, C. SAUCIER, D. DUCINT, K. TITIER, M. MOLIMARD

11.00 – 12.30

Toxicologie hospitalière, 2^{ème} partie

Modérateurs: Guillaume HOIZEY et Patrick NISSE

7. Place des laboratoires de toxicologie hospitalière dans le système français de toxicovigilance

C. RAGOUCY-SEGLER

8. Etude d'un kit de dépistage immunoenzymatique des antidépresseurs tricycliques : Analyse statistique de la structure des molécules et affinité pour l'anticorps

C. BAZIN, N. CHEZE, D. RESIERE, L. HAVARD

9. Dosage rapide et simultané de 14 neuroleptiques et autres phénothiazines dans le sang par CL-SM/SM

S. LEPAGE, A. FEUILLU, I. MOREL

10. A propos d'un cas d'intoxication massive au topiramate

E. SAUSSEREAU, Y. LE HENAFF, T. ROMBAUT, C. LACROIX, J.P. GOULLE

11. Intoxications par le lithium : Intérêt du dosage du lithium plasmatique dans l'évaluation et la prise en charge clinique

P. NISSE, L. LABAT, B. DEHON, M. LHERMITTE, M. MATHIEU-NOLF

12. La carambole (*Averrhoa carambola L.*), un fruit tropical susceptible de provoquer des intoxications.

S. PICQUE, C. LEONARDI, M. SIMONETTI, K. HUE, H. JOSEPH, P. BOURGEOIS, C. RAGOUCY-SEGLER



13. Le chlordécone: un profil toxicologique particulier

L. MULTIGNER, P. KADHEL

14. Evaluations des risques liés à l'exposition chronique au chlordécone

P. KADHEL, F. HUC-TERKI, P. BLANCHET, E. JANKY, L. MULTIGNER

15. Caractérisation des groupes de population à risque d'exposition vis à vis de la chlordécone via l'alimentation, Martinique, 2006

A. BLATEAU, C. FLAMAND, C. DUBUISSON, F. HERAUD, J.L. VOLATIER,
P. QUENEL

16. Exposition chronique aux organophosphorés, revue des aspects analytiques

A. BATISSE, S. DULAURENT, J. BANGOU, C. RAGOUCY-SEGLER

17. La réversion des effets respiratoires du paraoxon: origine centrale ou périphérique

P. HOUZÉ, L. PRONZOLA, M. KAYOUKA, F.J. BAUD

18. Exposition au méthylmercure des populations de la Guyane française

A. BLATEAU, T. CARDOSO, V. ARDILLON, C. SUIVANT, C. FLAMAND, P. QUENEL

19. Validation du dosage du mercure plasmatique par ICP-MS et concentrations usuelles

J.P. GOULLÉ, L. MAHIEU, E. SAUSSEREAU, D. BOUIGE, M. GUERBET, C. LACROIX

20. Dosage du cadmium urinaire: premiers résultats d'une étude multicentrique

L. LABAT, D. Olichon, J. Poupon, M. Bost, V. Cirimele, M. Deveau, J.P. Goullé, O. Guillard, V. Haufroid, A. Le Bouil, C. Moesch, A. Nicolas, A. Pineau (Groupe de Travail « Toxiques Industriels » de la SFTA)

21. Evaluation des biomarqueurs urinaires d'exposition au benzène: corrélation avec le benzène sanguin et influence d'autres paramètres biologiques

V. HAUFROID, P. HOET, E. DESMEDT, S. GHITTORI, L. MAESTRI, S. NEGRI,
M. IMBRIANI, D. LISON



8.45 – 10.30

Analytics in hair testing

Chair: Marc DEVEAUX and Robert KRONSTRAND

22. Selective buprenorphine quantitation in blood and hair samples by LC-MS/MS detection of its N-methylpyridyl-derivatives

D. THIEME, H. SACHS

23. Use of LC-MS/MS screening for hair analysis: application to detection of methadone in hair

O.H. DRUMMER, J. BEYER, V. STAIKOS, A. KOTSOS, D. GEROSTAMOULOS

24. Detection of benzylpiperazine (BZP) in hair as part of a quantitative multi analyte drug screen using LC-MS/MS

T.A. BASSINDALE, R.M. BEREZOWSKI, S.J. DICKSON, N. LUCAS

25. Monitoring methylphenidate treatment in children and adolescents by hair and saliva testing

E. MARCHEI, J.A. MUÑOZ, O. VALL, O. GARCIA-ALGAR, S. ROSSI, R. PACIFICI, S. PICHINI

26. Development and application of reference materials for the determination of methamphetamine and amphetamine in hair

S. LEE, Y. PARK, W. YANG, E. HAN, S. CHOE, S. IN, M. LIM, H. CHUNG

27. Hair extraction recoveries from intact and powdered hair into methanol

R. KRONSTRAND, M. FORSMAN, T. SELDÉN, I. NYSTRÖM

28. Extraction of drugs of abuse from hair. Can we determine realistic extraction recovery?

J. BEYER, V. STAIKOS, D. GEROSTAMOULOS, O.H. DRUMMER

11.00 – 12.30

Alcohol markers

Chair: Carmen JURADO and Christine MOORE

29. Testing for alcohol use in hair: is ethyl glucuronide (EtG) stable in hair?

L. TSANA CLIS, R. KINGSTON, J. WICKS

30. Ethylglucuronide as a biomarker of ethanol intake: application to clinical and forensic cases

A. CRUZ, M. MON, A. DE CASTRO, M. CONCHEIRO, O. QUINTELA, M. LOPEZ-RIVADULLA

31. Determination of ethyl glucuronide in hair by derivative HS-SPME/GC-NCI -MS and methodical comparison with liquid injection-GC-NCI-MS and with LC-MS-MS
J. SCHRÄDER, T. NADULSKI, S. LEHMANN, M. ROTHE, M. YEGLES, F. SPORKERT, F. PRAGST

32. 11-Nor-Delta-9-tetrahydrocannabinol-9-carboxylic acid ethyl ester (THC-COOEt): unsuccessful search for a marker of combined cannabis and alcohol consumption
 T. NADULSKI, J. SCHRÄDER, S. BLEEK, W.R. BORK, F. PRAGST

33. High prevalence of positive FAEE hair tests among families involved with children's aid societies and associated concurrent drug use
V. KULAGA, F. PRAGST, G. KOREN

34. Control of abstinence or proof of consumption: hair analysis as a tool within the process of re-granting the driving licence
M.R. BAUMGARTNER, A. OSWALD, A. NGUYEN, A. BOSS, M. HAAG, M. YEGLES B. LINIGER

13.45 – 15.30

Interpretation and applications of hair analysis

Chair: Heesun CHUNG and Christian STAUB

35. Simultaneous determination of 18 benzodiazepines and their main metabolites in hair, blood and urine by LC-ESI-MS/MS. Application to the determination of triazolam in a drug-facilitated crime
 M. CHÈZE, A. LENOAN, M. DEVEAUX, G. PÉPIN

36. Midazolam drug-facilitated crimes: three recent observations in hair
 P. SIBILLE, N. MILAN, I. RICORDEL

37. Age and chemical abuse. Evidence from hair analysis
P. KINTZ, M. VILLAIN, V. CIRIMELE

38. Identification of alprazolam in a suspected drug-facilitated sexual assault
M.A. MONTGOMERY, M.A. LEBEAU

39. Correlation of postmortem toxicology results with hair analysis in cases of suspected acute drug intoxication
D. ISENSCHMID, C. MOORE, J. BECHINSKI, B. HEPLER, C. SCHMIDT

40. Kinetics of disappearance of cocaine from hair after discontinuation of drug use
 M. NESTERENKO, F. GARCIA-BOURNISSEN, T. KARASKOV, J. GARERI, G. KOREN

41. Assessment of passive exposure to cocaine in preschool children from a Mediterranean city by hair testing
 X. JOYA, E. CIVIT, O. VALL, O. GARCIA-ALGAR, S. PICHINI, G. SCARAVELLI, R. DE LA TORRE



8.30 – 10.00 Opening ceremony, special lectures

42. History of TIAFT

R. WENNIG

43. Is rum toxic?

J.P. ANGER, P. KINTZ

10.30 – 12.30 Postmortem toxicology

Chair: Olaf DRUMMER and Dan ISENSCHMID

44. Acute intoxication with colchicine by confounding, a never ending story?

H. WOLLERSEN, F. ERDMANN, R. DETTMEYER

45. Codeine in postmortem blood: challenges for interpretation

A. HELLAND, A.A. WESTIN, L. SLØRDAL

46. Fatal and severe codeine intoxication in three year old twins

N. FERREIRÓS, S. DRESEN, W. WEINMANN, V. AUWAERTER, R. TRITTLER,
H. NADJEM, R. HENTSCHEL, C. MUELLER, A. PAHL, M. HERMANNNS-CLAUSEN

47. Evaluation of morphine and their glucuronides (M6G and M3G) in opiate-related deaths.

S. ROJEK, M. KŁYS

48. Determination of the N-Terminal Pro-BNP (NT-proBNP) in post-mortem specimens

K. MICHAUD, M. AUGSBURGER, N. DONZE, S. SABATASSO, M. FAOUZI,
M. BOLLMANN, P. MANGIN

49. Suggesting a cut-off for ethyl glucuronide in urine for forensic proof of ethanol consumption

C.C. HALTER, A. THIERAUF, S.C. BUNZ, F.M. WURST, W. WEINMANN

50. Is vitreous humour a useful adjunct to post-mortem blood in the investigation of heroin-related deaths?

D.W.S. STEPHEN, B.L. CROAL

51. Acute arsenic poisoning: clinical, toxicological and histopathological features

G. TOURNEL, L. HUMBERT, C. DHORNE, C. HOUSSAYE, A. BECART, V. HEDOUIN,
D. GOSSET, M. LHERMITTE

13.45 – 15.45

Analytical aspects, part 1

Chair: Aldo POLETTINI and Osamu SUZUKI

**52. Preliminary method for simultaneous quantification of psychoactive substances in oral fluid using UPLC-MS/MS**K. PIL, E. RAES, A. VERSTRAETE**53. Detection and validated quantification of the phosphodiesterase type 5 inhibitors sildenafil, vardenafil, tadalafil and two of their metabolites in human blood serum by LC-MS/MS**T. KRAEMER, J. HILJE, K.Y. RUST, M. HOPF, S. WARTH, D. BREGEL, H. WILKENS, J. WILSKE**54. Comparison of quantitative and qualitative drug screening approaches to forensic toxicology samples: applications for blood analyses**O. H. DRUMMER, B. PATTERSON, M. GRIGG, D. GEROSTAMOULOS, J. BEYER**55. Combining general unknown screening by UPLC-MS and target screening by UPLC-MS/MS to improve identification of xenobiotics in biological matrix**L. HUMBERT, C. RICHEVAL, A. PACCOU, M. LHERMITTE**56. Determination of 27 opioids and their metabolites in urine by LC-MS/MS**A.I. AL-ASMARI, R.A. ANDERSON**57. Simple and rapid screening for psychotropic natural products using DART (Direct Analysis in Real Time)-TOF/MS**R. KIKURA-HANAJIRI, M. KAWAMURA, Y. GODA**58. Synthesis and characterization of a molecularly imprinted polymer for the selective extraction of flunitrazepam and its main metabolites**A. BUGEY, Ch. WIDMER, F. BELHADJ-KAABI, V. PICHON, Ch. STAUB**59. What has changed in forensic analytical toxicology twenty years after the case Barschel**Ch. STAUB, P. MANGIN

16.15 – 17.30

Occupational toxicology

Chair: Laurence LABAT and Robert WENNIG

60. Sensitive analyses of volatile organic compounds by cryogenic-oven-trapping gas chromatography-mass spectrometryR. KANEKO, Y. HIRATA, M. HAMAJIMA, H. HATTORI, H. SENO, O. SUZUKI, A. ISHII**61. Analysis of volatile organic compounds in ambient air using HS-GC-MS after chemical desorption**V. CIRIMELE, M. ETTER, M. VILLAIN, P. KINTZ

62. Analysis of volatile organic compounds by in-tube extraction (ITEX) and GC-MS

I. RASANEN, J. VIINAMÄKI, I. OJANPERÄ



63. Cocaine and metabolites in waste and surface waters across Belgium – a monitoring study

A. VAN NUIJS, B. PECCEU, A. GHEORGHE, L. THEUNIS, N. DUBOIS, C. CHARLIER, P. JORENS, L. BERVOETS, R. BLUST, A. COVACI, H. NEELS

64. The magnitude of paraoxon-induced inhibition of cholinesterase activities and pralidoxime reactivation is tissue-dependent.

P. HOUZÉ, C. MARTIN, T. DUARTE, F.J. BAUD

Thursday, June 5

TIAFT Meeting

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| 8.30 – 10.00 | Sponsored workshops 1 and 2,
by <i>Thermo Fisher Scientific</i> and <i>Roche</i> |
| 10.30 – 12.00 | Sponsored workshops 3 and 4
by <i>Waters</i> and <i>Inverness</i> |
| 14.00 – 15.30 | Sponsored workshops 5 and 6,
by <i>Applied</i> and <i>Randox</i> |

Friday, June 6

TIAFT Meeting

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| 8.00 – 17.30 | Poster session |
| 8.00 – 10.15 | Clinical toxicology & pharmacology
(joint session with IATDMCT)
Chair: Hans MAURER and Michel LHERMITTE |

65. Quantification of new generation antidepressants using a gas chromatographic-mass spectrometric method. Applications in clinical toxicology

S.M.R. WILLE, P. VAN HEE, H.M. NEELS, C.H. VAN PETEGHEM, W.E. LAMBERT

66. Blood kinetics of ethyl glucuronide and ethyl sulphate in chronic alcoholics

G. HØISETH, L. MORINI, A. CHRISTOPHERSEN, A. POLETTINI, J. MØRLAND



67. Desalkylflurazepam – a metabolite of midazolam

S. VOGT, L. FISCHER, S. DRESEN, J. KEMPF, J. TRABER, V. AUWAERTER,
W. WEINMANN

68. Studies on the metabolism and toxicological analysis of mitragynine, an ingredient of the herbal drug *Kratom*, in rat urine using GC-MS techniques

A.A. PHILIPP, S.W. ZOERNTLEIN, O.N. KLEIN, H.H. MAURER

69. An in vitro study on the importance of the polymorphic enzymes CYP2D6 and CYP2C19 at therapeutic and toxic levels for the metabolism of amitriptyline taking the influence of metabolites into account

J. JORNIL, K. LINNET

70. Isolation and purification of the 4'-hydroxymethyl metabolites of the designer drugs 4'-methyl- α -pyrrolidinopropiophenone and 4'-methyl- α -pyrrolidinohexanophenone biotechnologically synthesized using fission yeast co-expressing human cytochrome P450 reductase and human CYP2D6

F.T. PETERS, A. KAUFFELS, C.A. DRAGAN, M. BUREIK, H.H. MAURER

71. Microsomal synthesis of phase I metabolites of drugs and their stable isotope analogues; the identification of novel markers of ketamine administration for forensic purposes

S. TURFUS, M.C. PARKIN, R.A. BRAITHWAITE, D.A. COWAN, S.P. ELLIOTT,
J.M. HALKET, N.J. SMITH, G.B. STEVENTON, A.T. KICMAN

72. The role of human hepatic cytochrome P-450 isozymes in the metabolism of the racemate and the enantiomers of MDMA

M.R. MEYER, F.T. PETERS, H.H. MAURER

73. Studies on the metabolism of the Δ^9 -tetrahydrocannabinol precursor Δ^9 -tetrahydrocannabinolic acid A (Δ^9 -THCA-A) in rat urine using LC-MS/MS techniques

J. JUNG, V. AUWAERTER, M.R. MEYER, H.H. MAURER, C. NEUSUESS,
W. WEINMANN

10.45 – 12.45

New trends in DUI detection

Chair: Manfred MOELLER and Alain VERSTRAETE

74. A rapid superparamagnetic particles-based biosensor immunoassay for drugs-of-abuse in oral fluid

S. MARLIN, A. JEHANLI, A. PANG, D. BALDWIN, F. DE THEIJE, M. SIJBERS,
A. JUNGE, S. VAN LIEROP

75. Prevalence of alcohol in blood samples from fatal and nonfatal traffic accident cases in Turkey

N. IDIZ, A. KARAKUS, M. DALGIC, R. MESERI, S.A. AKGUR



76. A validated method for the extraction of drugs from the DrugWipe® drug-testing device and confirmation by LC-MS/MS

R.I.D. BIRKLER, M.F. ANDREASEN, M. JOHANNSEN

77. Comparison of drug prevalence, sex and age distribution of the Norwegian general driving population, groups of apprehended and fatal accident drivers

A.S. CHRISTOPHERSEN, H. GJERDE, P.T. NORMANN, J. MØRLAND

78. Relationship between oral fluid and blood concentrations of drugs of abuse in drivers suspected of DUID

E. RAES, A. VERSTRAETE, P. LILLSUNDE, T. GUNNAR, M. LALOUP,
A. CHRISTOPHERSEN, M. MOELLER, K. HAMMER

79. Intake of psychoactive drugs by DUI offenders: correlation with alcohol abuse and accident-proneness indexes

R. GIORGETTI, M. D'AMATO, S. PAGANI, L. STEFANELLI, A. TAGLIABRACCI

80. Does the change of traffic law changes drunken and drugged drivers?

P.X. ITEN

81. Alcohol and drugs in fatal traffic accidents in Spain

M.A. MARTÍNEZ, C. JURADO

14.15 – 15.30

Analytical aspects, part 2

Chair: Peter ITEN and Jean-Pierre GOULLE

82. A new database of chemical formulas for the screening of pharmaco/toxicologically relevant compounds in biological samples using high mass resolution

A. POLETTINI, R. GOTTARDO, J.P. PASCALI, F. TAGLIARO

83. Dominance of pre-analytical over analytical variation for measurement of methadone in postmortem femoral blood

K. LINNET, S.S. JOHANSEN

84. On-line solid phase extraction coupled with liquid chromatography/tandem mass spectrometry simultaneous determination of opiates, cocaine and its metabolites, amphetamines and buprenorphine in serum, plasma and whole blood

C. LACROIX, E. SAUSSEREAU, G. BODIN, J.P. GOULLE

85. Validation of ELISA and LC-MS/MS methods for the determination of ketamine and norketamine in human urine samples

N. HARUN, R.A. ANDERSON

86. Dual transition monitoring for the determination of cannabinoids in whole blood using LC-MS/MS

C. MOORE, C. COULTER, K. CROMPTON

15.30 – 16.30

Free topics

Chair: Marc LEBEAU and Anya PIERCE

**87. A fatal cocktail on the web: helium, bromazepam and yew. A young man takes action**N. MILAN, P. SIBILLE, I. RICORDEL**88. Date-rape drugs in Poland – An eight year review**P. ADAMOWICZ, M. KALA, W. LECHOWICZ**89. Identification and quantification of atractyloside (ATR) and carboxyatractyloside (CATR) by HPLC-MS² and HPLC-MS³ in the body fluids of two rabbits poisoned by oral feeding and two actual cases of human poisoning by *Atractylis gummifera***L. ROMEUF, C. MAZOYER, Y. CHERRAH, S. AHID, M. OLLAGNIER, T. BASSET, Y GAILLARD**90. Soft tissue injection of kerosene oil in a pregnant woman, a case report**T. FAKHERI, H.R. SAEEDI BROJENI, A. SALARI

17.00 – 18.30

**Sponsored workshops 7 and 8,
by *Agilent* and *Siemens*****Saturday, June 7 TIAFT Meeting**

9.00 – 17.30

Poster session

9.00 – 10.45

Alternative specimens

Chair: Marilyn HUESTIS and Patrick MURA

91. ORALVEQ: External quality assessment scheme of drugs of abuse in oral fluid. Results obtained in the first round performed in 2007M. VENTURA, R. VENTURA, S. PICHINI, S. LEAL, P. ZUCCARO, R. PACIFICI, R. DE LA TORRE**92. Quantitation of anhydroecgonine methyl ester (AEME) in oral fluid using liquid chromatography-tandem mass spectrometry**L. WILSON, A. JEHANLI, R. SMITH**93. Nails of newborns as a means in monitoring drug exposure during pregnancy**L. POLITI, F. MARI, M. DI PADUA, C. TRIGNANO, M.G. DI MILIA, E. BERTOL



94. Liquid chromatography-tandem mass spectrometry for ethylglucuronide and ethylsulfate in meconium: new biomarkers of gestational ethanol exposure

L. MORINI, E. MARCHEI, M. PELLEGRINI, A. GROPPI, C. STRAMESI, F. VAGNARELLI, C. MAGNANI, S. PICHINI

95. Novel biomarkers of *in utero* methamphetamine exposure in meconium

M. HUESTIS, T. GRAY, T. KELLY, L. LAGASSE, L. SMITH, C. DERAUF, P. GRANT, R. SHAH, A. ARRIA, W. HANING, A. STRAUSS, B. LESTER

96. Method development and validation for analysis of methadone, heroin, cocaine and metabolites in sweat patches by solid phase extraction and GC/MS

B. BRUNET, A.J. BARNES, K.B. SCHEIDWEILER, M.A. HUESTIS

97. Application of LC-TOF-MS qualitative screening analysis to vitreous humour

A. PELANDER, J. RISTIMAA, E. VUORI, I. OJANPERÄ

11.15 – 12.15

Drugs of abuse and seized material

Chair: Frank MUSSHOF and Donald UGES

98. Comparison of methamphetamine concentrations in oral fluid, urine and hair of twelve drug abusers using solid-phase extraction and GC-MS

J. LEE, H. CHOI, E. HAN, Y. PARK, E. KIM, H. CHOI, H. CHUNG

99. Profiling of ecstasy tablets by elemental analysis with ICP-MS

A. VERSTRAETE, R. MEEUWSEN

100. Δ^9 -Tetrahydrocannabinolic acid A - a novel marker for recent cannabis consumption?

V. AUWAERTER, J. JUNG, W. WEINMANN

101. Distinguishing new cannabis exposure in occasional users by time intervals between positive urine specimens

M. HUESTIS, M. SMITH

14.00 – 16.00

TIAFT business meeting

POSTER PRESENTATIONS

Friday, June 6 (8.00 – 17.30) & Saturday, June 7 (9.00 – 17.30)

P1. Chiral analysis of *R/S*-methadone and its main metabolite *R/S*-EDDP in postmortem blood by liquid chromatography-mass spectrometry

S.S. JOHANSEN, K. LINNET

P2. Enantiomeric determination of tramadol and o-desmethyltramadol by GC-MS in urine

L. CHYTIL, M. STICHA, O. SLANAR

P3. Quantification of 24 benzodiazepines and 2 analogues, by Ultra-Performance Liquid Chromatography- tandem mass spectrometry, in whole blood

N. CASTAING, K. TITIER, S. BOUCHET, M. MOLIMARD, N. MOORE

Laboratoire de pharmacologie-toxicologie, Bordeaux, France

P4. Fast, selective and sensitive method for the simultaneous determination of Δ^9 -tetrahydrocannabinol, 11-hydroxy- Δ^9 -tetrahydrocannabinol, 11-nor-9-carboxy- Δ^9 -tetrahydrocannabinol, cannabinal and cannabidiol in blood/serum and urine by GC-MS/MS

V. AUWAERTER, J. JUNG, W. WEINMANN

P5. Correction for drug loss during storage: decomposition of diazepam and temazepam in whole blood under different storage conditions

A. ALFAZIL, R.A. ANDERSON

P6. Comparison of atmospheric pressure chemical ionization (APCI) and electrospray ionization (ESI) for drugs relevant to forensic toxicology

J. BEYER, E. SAAR, B. PATTERSON, M. GRIGG, D. GEROSTAMOULOS,

O.H. DRUMMER

P7. The accuracy profile: a powerful tool in forensic toxicology

Ch. WIDMER, Ch. STAUB

P8. Evaluation of a UPLC-TOF method using both protonated molecular ions and their fragmentation patterns for urine drug screening in hospitals

P.S. LAI, H.K. LEE, C.S. HO, Y.P. IU, C.C. SHEK, Y.C. LO, H.B. KLINKE, M. WOOD

P9. Quantitative analysis of multiple psychotherapeutic drugs in human serum using UPLC-MS/MS

R. WATTS, E.P. SPENCER, M. WOOD

P10. Identification of metabolites by LC-MS-TOF demonstrated at the example of diphenhydramine

A. VON MEYER, A. BAKDASH, J. HALLBACH, F. PRAGST

P11. Simultaneous determination of amitraz and its metabolite in human serum by monolithic silica spin column extraction and liquid chromatography-mass spectrometry

T. SAITO, R. YAMAMOTO, S. INOUE, I. KISHIYAMA, S. MIYAZAKI, A. NAKAMOTO, M. NISHIDA, A. NAMERA, S. INOKUCHI

P12. Analysis of Δ^9 -THC and its metabolites 11-OH- Δ^9 -THC and THC-COOH in blood by gas chromatography coupled to tandem mass spectrometry (GC-MS/MS) and its application to medico-legal investigations

S. ROJEK, M. KLYS

P13. Rapid determination of anticoagulants and rodenticides in blood by UPLC-MS/MS

C. JAMEY, A. TRACQUI, B. LUDES

P14. An ONLINE DAT[®] immunoassay for the detection of amphetamine, methamphetamine and designer amphetamines in urine

J. McCLAIN, J. BENDER, H. WOODS, C. HURT, K. TRAN, I. BABURINA, S. JORDAN

P15. Reversing adsorptive losses of 11-nor-delta-tetrahydrocannabinol-9-carboxylic acid in spiked and collected urine samples

L. DUSCI, G. CHISWELL, K. ILETT

P16. Comparison of extraction recovery and LC-MS matrix effects of 20 antipsychotics using liquid-liquid and solid-phase extraction methods

J. BEYER, E. SAAR, D. GEROSTAMOULOS, O.H. DRUMMER

P17. Analysis of drugs and poisons by LC-TOF-MS: preliminary studies on mushroom toxin alpha-amanitin

K. GONMORI, M. SUZUKI, A. FUNAKOSHI, K. MINAKATA, H. NOZAWA, K. WATANABE, O. SUZUKI

P18. HPLC-MS and ¹H NMR analyses in a case of carbofuran and metaldehyde poisoning

B. CARTIGNY, N. AZAROUAL, M. IMBENOTTE, L. HUMBERT, G. VERMEERSCH, M. LHERMITTE

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