

GESELLSCHAFT FÜR
TOXIKOLOGISCHE UND FORENSISCHE CHEMIE

XXI. GTFCh-SYMPOSIUM

11. – 13. APRIL 2019
TAGUNGSZENTRUM ALTE MÄLZEREI
MOSBACH (BADEN)



Organisations-Komitee

Tagungspräsident

Volker Auwärter, Freiburg im Breisgau

Wissenschaftliches Komitee

Gisela Skopp, München

Mitglieder

Hilke Andresen-Streichert, Köln

Torsten Arndt, Ingelheim

Wolf-Rainer Bork, Berlin

Susanna Fehn, München

Frank T. Peters, Jena

Katharina Rentsch, Basel

Katja Schulz, Dresden

Stefan W. Tönnies, Frankfurt am Main

Webmaster

Stefan W. Tönnies, Frankfurt am Main

Congress Management

Tourismus Congress GmbH, Bonn

Die GTFCh dankt folgenden Sponsoren

Satellitensymposium

Bund gegen Alkohol und Drogen im
Straßenverkehr e.V. (B.A.D.S.)

Thermo Fisher Scientific

XXI. GTFCh-Symposium

ACQ Science

Agilent Technologies

Biotage

Bruker Daltonik

B&W Tek Europe

Chromsystems Instruments & Chemicals

Diagnostik Nord

GERSTEL

Gilson International

LGC Standards

Lipomed

Macherey-Nagel

Magritek

nal von minden

Phenomenex

RANDOX

RECIPE Chemicals + Instruments

Restek

Roche Diagnostics

SCIEX

Specialty Diagnostix

Thermo Fisher Scientific

Bitte besuchen Sie die Industrieausstellung / Please visit the industrial exhibition

Programm

Mittwoch, 10. April 2019

20:00 Uhr **Mittwochsvortrag für die Mosbacher Öffentlichkeit**

„CSI in Mosbach!? Forensische Toxikologie – nicht so wie im Fernsehen“
PD Dr. Hilke Andresen-Streichert, Institut für Rechtsmedizin, Köln

Donnerstag, 11. April 2019

11:30 Uhr **Stadtführung / City tour**

Treffpunkt und Kofferbunker: Tourist Information Mosbach, Marktplatz
Ende der Führung: 12:45 Uhr an der Tourist Information

12:00 Uhr **Young Scientists – Treffen / Meeting of young scientists**

Treffen der Doktoranden/innen und jungen Wissenschaftler/innen in der
Alten Mälzerei, Ende: 13:30 Uhr

Satellitensymposium

Betäubungsmittel: zwischen Missbrauch und therapeutischer Anwendung

14:00 Uhr **Eröffnung und Begrüßung / Opening and welcome**

**LSD, Psilocybin und MDMA: Therapeutische Anwendung und aktuelle
Therapiestudien**

Prof. Dr. med. Torsten Passie (Dr. Senckenbergisches Institut für Geschichte und
Ethik der Medizin, Goethe-Universität, Frankfurt am Main)

Cannabis als Medizin: Fakten zu Anwendung und Wirkung

Prof. Dr. med. Kirsten Müller-Vahl (Klinik für Psychiatrie, Sozialpsychiatrie und
Psychotherapie, Medizinische Hochschule, Hannover)

Opioide – Dr. Jekyll and Mr. Hyde

Prof. Dr. med. Matthias Karst (Klinik für Anästhesiologie und Intensivmedizin, Leiter
der Schmerzambulanz, Medizinische Hochschule, Hannover)

Ketamin in der Depressionsbehandlung – Chancen und Risiken

Prof. Dr. med. Malek Bajbouj (Klinik für Psychiatrie und Psychotherapie (CBF),
Leiter Bereich Affektive Neurowissenschaften, Charité – Universitätsmedizin Berlin)

18:00 Uhr **Sitzungsende / End of session**

19:15 Uhr **Orgelabend, Stiftskirche am Rathaus / Organ night, Stiftskirche at the town hall**

Dr. Jan Schäper (Bayerisches Landeskriminalamt, München), Ende: 19:45 Uhr

20:00 Uhr **Empfang durch den Bürgermeister, Rathaus Mosbach**

Freitag, den 12. April 2019

XXI. GTFCh-Symposium

Trends in der Forensischen Chemie und Toxikologie

- 09:00 Uhr** **Eröffnung des Symposiums und Grußworte**
Opening of the symposium and welcome
- 09:10 Uhr** **Vorträge: Kasuistiken / Oral presentations: Case reports**
- V01 Thomas Grobosch, Paul Kuhlich, Silke Cox, Berlin, Wiesbaden
The planned brutal murder of the pregnant woman Maria P.
- V02 Daniela Remane, Julia Dinger, Sylvia Morgenthal, Christin König, Gita Mall, Frank T. Peters, Jena
A “recipe” to suicide - Fatal poisoning with chloroquine
- V03 Lana Brockbals, Sandra N. Staeheli, Simon Gentile, Markus Schlaepfer, Christian Bissig, Stephan A. Bolliger, Thomas Kraemer, Andrea E. Steuer, Zürich (Schweiz)
Fatal poisoning involving cyclopropylfentanyl – Investigation of time-dependent post-mortem redistribution
- V04 Roelof Oosting, Lauriane Drouin, Rogier Van der Hulst, Ingrid Bosman, Den Haag (Niederlande)
A fatal intoxication with 4-fluoroisobutyrylfentanyl
- V05 Sabrina Lehmann, Alissa Sczyslo, Judith Froch-Cortis, Markus A. Rothschild, Mario Thevis, Hilke Andresen-Streichert, Katja Mercer-Chalmers-Bender, Köln, Basel (Schweiz)
Organ distribution of diclazepam, pyrazolam and 3-fluorophenmetrazin
- V06 Sabrina Lehmann, Andreas Thomas, Karl-Heinz Schiwy-Bochat, Hans Geyer, Mario Thevis, Frank Glenewinkel, Markus A. Rothschild, Hilke Andresen-Streichert, Martin Juebner, Köln
Death after misuse of anabolic substances (clenbuterol, stanozolol and metandienone)
- V07 Vanessa Hofmann, Aysche Landmann, Georg Schmitt, Marc Bartel, Heidelberg
Analytical separation of 5- and 6-APB and their distribution in the human body
- V08 Lea Wagmann, Sascha K. Manier, Hans H. Maurer, Markus R. Meyer, Homburg (Saar)
Polytoxicomania involving four synthetic cathinones: A case report and subsequent toxicokinetic studies
- V09 Gertrud Rochholz, Saskia Jung, Magdalena Eckner, Kiel
Nicotine used as a date rape drug
- 11:00 Uhr** **Kaffeepause / Coffee break**

Bitte besuchen Sie die Industrieausstellung / Please visit the industry exhibition

11:30 Uhr **Vorträge: Neues aus der Kriminaltechnik / *Oral presentations: News from forensic science***

- V10 Svenja Fischmann, Folker Westphal, Kiel
The EU-project ADEBAR for substance identification, analytical data provision and reference material
- V11 Jan Schäper, München
Illicit production of herbal blends and actual trends on the NPS-market
- V12 Sonja Metternich, Siegfried Zörntlein, Torsten Schönberger, Carolin Huhn, Mainz, Wiesbaden, Tübingen
Ion mobility spectrometry as a fast screening tool for synthetic cannabinoids to uncover drug trafficking in jail via herbal mixtures, papers, food and cosmetics
- V13 Fabian Stahlkopf, Folker Westphal, Kiel
Quantitative estimation of cocaine and amphetamine in seized mixtures using Raman spectroscopy
- V14 Marianne Hädener, Tim J. Gelmi, Marie Martin-Fabritius, Wolfgang Weinmann, Matthias Pfäffli, Bern (Schweiz)
Cannabinoid concentrations in confiscated cannabis samples and in whole blood and urine after smoking CBD-rich cannabis as a “tobacco substitute

12:30 Uhr **Mittagspause / *Lunch break***

13:15 Uhr **Posterausstellung mit Kaffeetheke / *Poster session and coffee bar***

- P01 Michaela Sommer, Sebastian Halter, Verena Angerer, Volker Auwärter, Maren Hermanns-Clausen, Freiburg, St. Gallen (Schweiz)
Impact of the NpSG on the number of hospitalisations due to NPS use
- P02 Julia Kaudewitz, Verena Angerer, Michaela Sommer, Lukas Mogler, Volker Auwärter, Freiburg, St. Gallen (Schweiz)
Prevalence estimation of synthetic cannabinoid use in prisons and forensic psychiatric hospitals before and after the introduction of the NpSG
- P03 Sandra N. Staeheli, Yannick Wartmann, Andrea E. Steuer, Thomas Kraemer, Zürich (Schweiz)
Prevalence of synthetic cannabinoids in abstinence control urine samples analyzed at the Zurich Institute of Forensic Medicine
- P04 Nadine Theofel, Michael Tsokos, Stefan Scholtis, Berlin
What else can we do to identify the source of intoxication?
- P05 Stefan Scholtis, Nadine Theofel, Sonja Roscher, Michael Tsokos, Berlin
Which concentrations of ramiprilat can we expect in different post-mortem samples?
- P06 Arianna Giorgetti, Lukas Mogler, Susanne Vogt, Volker Auwärter, Padua (Italien), Freiburg
The first case of death related to the novel synthetic cannabinoid 5F-cumyl-PEGACLONE

- P07 Ronja Peter, Sebastian Halter, Volker Auwärter, Andrea Jacobsen-Bauer, Jürgen Kempf, Aalen, Freiburg, Stuttgart
Intoxication with the synthetic cannabinoid ADB-PINACA after intake of alleged ecstasy tablets - A case report
- P08 Ricarda Kegler, Andreas Buettner, Daniel Rentsch, Rostock
Intoxication with U-47700 – A case report
- P09 Bea Schmidt, Angelika Pschierer, Bernd Schwarze, Erlangen, Rostock
Hair analysis in a case of fatal intoxication with the synthetic opioid U-47700
- P10 Julia Krüger, Frank Musshoff, Gisela Skopp, Matthias Graw, Gabriele Roeder, München
Iboga root or snakeroot – A deadly “root-confusion“?
- P11 Katarina Henning, Jörg Teske, Michael Klintschar, Marek Dziadosz, Hannover
Distribution of pipamperone concentrations after fatal poisoning
- P12 Sven Hartwig, Marc Windgassen, Berlin
Positional asphyxia in poisoning with bupropion and doxepin - An initially suspected murder case.
- P13 Selina Kramer, Christoph Kleinert, Ronja Peter, Sebastian Halter, Volker Auwärter, Jürgen Kempf, Freiburg, Villingen-Schwenningen, Aalen
LC-MSⁿ analysis of street drugs consumed in drug consumption rooms in the city of Frankfurt: A one-year recap
- P14 Petra Hehet, Niklas Köke, Thomas P. Knepper, Michael Pütz, Wiesbaden, Idstein
Biotransformation of synthetic cannabinoids and some of their human metabolites in sewage system
- P15 Lisa Eisenbeiss, Andrea Oestreich, Annika M. Dally, Sandra N. Stäheli, Andrea E. Steuer, Thomas Kraemer, Zürich (Schweiz)
Two cases of GHB/GBL intake with prolonged detection windows
- P16 Marianne Hädener, Sina Vieten, Wolfgang Weinmann, Hellmut Mahler, Bern (Schweiz), Düsseldorf
A preliminary investigation of lung availability of cannabinoids by smoking marijuana or dabbing butan hash oil (BHO) and decarboxylation rate of THC- and CBD-acids
- P17 Anne Scheunemann, Jörg Röhrich, Siegfried Zörntlein, Tanja Germerott, Mainz
Cannabinoid patterns in medicinal-grade marijuana and seized cannabis plants
- P18 Franziska Krumbiegel, Eric Zytowski, Sven Hartwig, Cristina Rubio, Fritz Pragst, Berlin, Patagonia (Brasilien)
Detection of coca alkaloids in coca leaves and urine samples to proof the consumption of natural coca products
- P19 Kerstin Henkel, Miriam Klima, Markus J. Altenburger, Volker Auwärter, Merja A. Neukamm, Freiburg
Opioids in 28 dental plaque samples from patients undergoing long-term medication and comparison with samples from lethal intoxications
- P20 Harald Todt, Jürgen Kolz, Aachen
Benchttop NMR spectroscopy: Applications in forensics

- P21 Florian Thieme, Sina Kestner, Gertrud Rochholz, Kiel
Validation of an ELISA for detection of amphetamines: Multi-parametric ROC-analysis using a self-programmed R-script for data evaluation
- P22 Tom R. Sundermann, Vanessa Hofmann, Georg Schmitt, Marc Bartel, Heidelberg
Cross-reactivity of the CEDIA opiate assay in drugs-of-abuse screening: Influence of dose and metabolites of trimipramine
- P23 Dao Maba, Bernd Tiemann, Christoph Protzek, Rolf Aderjan, Lörrach, Neckarsteinach
Metrological quality control (QC) of commonly used drugs of abuse lateral flow assays: Cut-off, accuracy and precision
- P24 Shun-Hsin Liang, Frances Carroll, Ute Beyer, Bellefonte (CA, USA)
Analysis of phosphatidylethanol in human whole blood by LC-MS/MS
- P25 Theresa Küting, Niklas Beier, Michael Krämer, Burkhard Madea, Cornelius Hess, Bonn, Mainz
Methyl 4-hydroxybutyrate and ethyl 4-hydroxybutyrate as potential markers for simultaneous consumption of GHB/GBL and alcohol
- P26 Laura Snow, Jennifer Aloe, Christian Teichmann, Torrance (CA, USA), Aschaffenburg
Analysis of 12 Phytocannabinoids in Whole Blood by LC-MS/MS
- P27 Wolfgang Weinmann, Adamantios Krokos, Andreas Längin, Marie Martin Fabritius, Bern (Schweiz), Thessaloniki (Griechenland)
Filter paper in a lateral-flow test cartridge for storage of dried matrix spots (DMS) – A study with dried blood spots (DBS)
- P28 Michaela Schmidt, Marina Schumacher, Birgit Schneider, Laura M. Huppertz, Jürgen Kempf, Freiburg, Villingen-Schwenningen, Bremen
The final step towards automated LC-MS screening - Implementation of an online μ SPE for urine screening
- P29 Oliver Lerch, Fred D. Foster, John R. Stuff, Mark Hayward, Mülheim, Linthicum (USA), Harwell (USA)
Drugs of abuse in oral fluids: Automated SPE extraction and LC-MS/MS determination using a robotic autosampler
- P30 Clara Süßenbach, Hans Rainer Wollseifen, Torsten Kretschmer, Stefan Hamm, Hilke Andresen-Streichert, Tobias Kieliba, Köln, Düren
Polytoxicological analysis of urine specimen according to German CTU-criteria: Development of a comprehensive method via solid-phase extraction and LC-MS/MS detection
- P31 Frances Carroll, Sharon Lupo, Justin Steimling, Ute Beyer, Bad Homburg
The analysis of emerging drugs of abuse: Updating an existing method with new compounds
- P32 Jan-Niklas Kleis, Jörg Röhrich, Tanja Germerott, Mainz
Development of a qualitative screening method for synthetic cannabinoids using quadrupole time-of-flight mass spectrometry
- P33 Maurice Wilde, Volker Auwärter, Freiburg
Analytical challenges in the forensic toxicological analysis of novel synthetic opioids from the class of ‘U-drugs’

- P34 Johann-Arthur Schaser, Wolfgang Dreiseitel, Michael Pütz, Wiesbaden
LC-ESI-MS/MS studies on positional isomers of NPS and isomer differentiation via library search
- P35 Moritz Losacker, Burkhard Madea, Cornelius Hess, Alexandra Maas, Bonn, Mainz
Enantioselective detection of S-/R-amphetamine and S-/R-methamphetamine and differentiation between pure methamphetamine consumption and amphetamine co-consumption
- P36 Jörn Kalinowski, Linda Dobrzykowski, Björn Ahrens, Arwa Al-Dilaimi, Anika Winkler, Daniel Wibberg, Matthias Wagner, Uwe Schleenbecker, Roman Wölfel, Gregor Grass
Whole genom analysis of endospore-forming bacteria isolated from heroin
- P37 Ulf Meier, Katja Mercer-Chalmers-Bender, Eva Scheurer, Franz Dussy, Basel (Schweiz)
Development, validation and application of an LC-MS/MS method for mitragynine and 7-hydroxymitragynine analysis in hair
- P38 Christoph Geffert, Detlev Ranke, Henrik Winkler, Oliver Midasch, Klipphausen, Gräfelfing
Validation of a new LC-MS/MS assay for the analysis of drugs in urine and comparison with established analytical methods (GC-MS and LC-MS/MS): Advantages for the daily laboratory routine
- P39 Georg Schmitt, Marc Bartel, Gisela Skopp, Michael Herbold, Heidelberg, München, Walldorf
Acceptance limits in the proficiency test program of the GTFCh

14:15 Uhr **Vorträge: Hochauflösende Massenspektrometrie, Toxikokinetik**
Oral presentations: High resolution mass spectrometry, Toxicokinetics

- V15 Martina I. Boxler, Justine Raeber, Christian Steuer, Dario A. Dornbierer, Oliver G. Bosch, Boris B. Quednow, Erich Seifritz, Thomas Kraemer, Andrea E. Steuer, Zürich (Schweiz)
Identification of new urinary gamma-hydroxybutyric acid (GHB) markers applying untargeted metabolomics analysis following placebo-controlled administration to humans
- V16 Lilian H. J. Richter, Anastasia Andreas, Yu Mi Park, Lea Wagmann, Jennifer Herrmann, Rolf Müller, Veit Flockerzi, Markus R. Meyer, Homburg (Saar), Saarbrücken
Tools for studying the metabolism of NPS by means of LC-HRMS/MS - A comparative study using HepaRG cells, zebrafish larvae, and the synthetic cannabinoid 7'-N-5F-ADB
- V17 Tanja M. Gampfer, Lilian H. J. Richter, Lea Wagmann, Markus R. Meyer, Homburg (Saar)
In vitro toxicokinetics of designer opioids – Metabolic stability, isozyme-mapping, and phase I and II metabolism of cyclopentylfentanyl, tetrahydrofuran-fentanyl, and U-48800
- V18 Franziska Gaunitz, Patrick Dahm, Lukas Mogler, Andreas Thomas, Mario Thevis, Katja Mercer-Chalmers-Bender, Köln, Freiburg, Basel (Schweiz)
Phase I metabolic profiling of the synthetic cannabinoid EG-018 by pooled human liver microsomes, CYP isoenzymes, *Cunninghamella elegans* and urine screening

- V19 Frederike Nordmeier, Achim T. Caspar, Lilian H. J. Richter, Peter H. Schmidt, Nadine Schaefer, Markus R. Meyer, Homburg (Saar)
Studies on in vitro and in vivo metabolism of the synthetic opioid U-47700 using pooled human S9 fractions, rat and human
- V20 Lukas Mogler, Sebastian Halter, Belal Hashimi, Arianna Giorgetti, Svenja Fischmann, Folker Westphal, Volker Auwärter, Freiburg, Padua (Italien), Kiel
Detection and human metabolism of the 7-azaindole derived synthetic cannabinoid 5F-AB-P7AICA
- V21 Helena Fels, Julia Krueger, Frank Musshoff, Gabriele Roeder, Jutta Schöpfer, Matthias Graw, Sabine Gleich, München
Detection of pharmaceutical substances in residents of nursing homes in Bavaria – A medico-legal study
- V22 Thomas P. Bambauer, Gabor Balla, Ngoc Tran Tran, Katharina Neblung, Lea Wagmann, Markus R. Meyer, Homburg, Pirmasens
Pantherina-Muscaria syndrome – A case report and LC-HRMS/MS analysis of toxic isoxazoles
- 15:45 Uhr Mitgliederversammlung / Business Meeting**
Ende: 17:30 Uhr
- 19:00 Uhr Festabend mit Verleihung des Jean-Servais-Stas-Preises und des Förderpreises für junge Wissenschaftler**

Congress ceremony and dinner – Presentation of the 2019 laureate of the Jean-Servais-Stas award and of the winner of the GTFCh Young-Scientists award

Lecture / Festvortrag
Dr. Detlef Thieme (Kreischa): All Ding sind Doping...?
- 23:00 Uhr After Dinner Party**

Samstag, 13. April 2019

- 9:00 Uhr **Vorträge: Alternative Matrices, analytische Strategien**
Oral presentations: Alternative matrices, analytical strategies
- V23 Lina Gessner, Ursula Telgheder, Markus A. Rothschild, Hilke Andresen-Streichert, Katja Mercer-Chalmers-Bender, Martin Juebner, Essen, Basel (Schweiz)
Quantification of methadone, opiates and cocaine metabolites in Dried Blood Spots (DBS) and blood volume estimation via cyanhemoglobin method
- V24 Nadine Aboutara, Hilke Jungen, Martina Sterneck, Anne Szewczyk, Stefanie Iwersen-Bergmann, Alexander Müller, Hamburg
Analysis of six different homologues of phosphatidylethanol (PEth) from Dried Blood Spots by LC-MS/MS
- V25 Robert Erne, Laetitia Bernard, Markus R. Baumgartner, Thomas Kraemer, Zürich, Duebendorf (Schweiz)
MALDI single hair analytics: New insights in the contamination issue

- V26 Ulf Meier, Stephan Imfeld, Flora Colledge, Eva Scheurer, Thomas Briellmann, Katja Mercer-Chalmers-Bender, Franz Dussy, Basel (Schweiz)
Distribution pattern of common drugs of abuse, benzodiazepines and ethyl glucuronide across scalp hair
- V27 Thomas Franz, Gerlinde Schwarz, Gisela Skopp, Frank Musshoff, München
Proof of cocaine use by minor metabolites in hair – Comparison of results from 2 different collectives
- V28 Christopher Wiedfeld, Gisela Skopp, Frank Musshoff, München,
Single hair analysis - Application on special forensic cases
- V29 Fritz Pragst, Franziska Krumbiegel, Denise Thurmann, Lena Westendorf, Maximilian Methling, André Niebel and Sven Hartwig, Berlin
Positive findings of ethyl glucuronide in hair of young children from families with addiction background: Intake of alcohol or contamination of hair?
- V30 Frank M. Hauser, Janneke W. Hulshof, Thorsten Rößler, Diana Weigel, Michael Pütz, Wiesbaden, The Hague (Niederlande)
Identification of specific markers for amphetamine synthesised from the pre-precursors APAAN and glycidic acid derivatives
- V31 Stefania Oliverio, Ariana Zeka, Giovanni Leonardi, Vincent Varlet, Genf (Schweiz), London (England)
New trends for an old poison: alternative biomarker for carbon monoxide poisoning determination
- V32 Hannes M. Schwelm, Christina Grumann, Volker Auwärter, Merja A. Neukamm, Freiburg
Enantioselective determination of 13 amphetamine-type phenethylamines and implications for the interpretation of metabolism in forensic case work
- 10:45 Uhr** **Kaffee-Pause / *Coffee Break***
- 11:10 Uhr** **Vorträge: Freie Themen aus der Forensischen Chemie und Toxikologie**
Oral presentations: *communications in forensic chemistry and toxicology*
- V33 Marek Dziadosz, Hannover
Application possibilities of acetate salt based analyte adduct formation in the LC-MS/MS analysis performed for the purposes of forensic toxicology
- V34 Sascha K. Manier, Hans. H. Maurer, Markus R. Meyer, Homburg (Saar)
Intoxications with nutmeg seeds – Ingredients detectable by GC- and LC-MS techniques?
- V35 Michael Kraemer, Sebastian Broecker, Burkhard Madea, Cornelius Hess, Bonn, Berlin, Mainz
Decarbonylation: A metabolic pathway of cannabidiol in humans
- V36 Katharina E. Grafinger, Harpreet Kaur Mandhair, Alain Broillet, Jürg Gertsch, Wolfgang Weinmann, Bern (Schweiz)
The Cytotoxicity of the synthetic cannabinoids 5C-AKB48, 5F-MDMB-PINACA, ADB-CHMINACA, MDMB-CHMICA and NM-2201 on lung carcinoma and buccal carcinoma cell lines

- V37 Belal Haschimi, Florian Franz, Volker Auwärter, Freiburg
Synthetic cannabinoids in abstinence control testing: Repeated consumption or prolonged renal excretion due to an extraordinarily long terminal elimination half-life?
- V38 Sebastian Halter, Lukas Mogler, Josefine Herzog, Folker Westphal, Svenja Fischmann, Volker Auwärter, Freiburg
5F-Cumyl-PEGACLONE – First pharmacological data and thermal stability
- V39 Stefanie Iwersen-Bergmann, Axel Heinemann, Martin Schulz, Timon Schönfeld, Alexander Müller, Hamburg, Berlin
Post-mortem screening for pharmaceutical opioids. Special focus on fentanyl – A follow-up examination by LC-MS/MS
- V40 Sabrina Ritscher, Milena Opper, Nicholas Obermüller, Stefan W. Toennes, Frankfurt
Use of the dose-related concentration approach in therapeutic drug monitoring of diuretics and β -blockers – drug classes with low adherence in antihypertensive therapy
- V41 Lina Gessner, Ursula Telgheder, Malaak Isa, Hilke Andresen-Streichert, Markus A. Rothschild, Martin Juebner, Essen, Köln
Rapid drinking = rapid drunkenness: Does a fast alcohol uptake induce a rapid increase of ethanol concentration in blood?
- 12:50 Uhr** **Schlusswort zum Symposium / *Closing words***
- 13:00 Uhr** **Tagungsende / *End of the meeting***

Organisatorisches

Anmeldung / *Registration*

Anmeldeschluß zur Teilnahme am Symposium war am 16.03.2019.

Die Teilnehmergebühr beträgt für Mitglieder der GTFCh 100 €(ab 17.03.2019 140 €), für Nichtmitglieder der GTFCh 200 €(ab 17.03.2019 240 €), für Studenten 30 €(ab 17.03.2019 70 €) und als Mitglied der GTFCh im Ruhestand ohne Nebentätigkeit 30 €(ab 17.03.2019 70 €).

Der Teilnahmebeitrag war bis zum 17.03.2019 (Zahlungseingang) auf das Konto des GTFCh-Schatzmeisters zu überweisen. Eine **Barzahlung der Tagungsgebühr im Tagungsbüro** ist nur in besonders genehmigten Ausnahmen möglich. Bei verspäteter Zahlung muss ein Aufschlag von 40 €als Bearbeitungsgebühr zusätzlich berechnet werden.

Telekommunikation mit dem Tagungszentrum / *Telecommunication with the conference office*

Tel.: + 49 (0) 6261 9292-78; e-mail: info@maelzerei.de

WLAN

Netzwerk: AM, Benutzer: gtfch; Passwort: gtfch-online oder: Netzwerk: gtfch; Passwort: gtfch-online (Benutzer entfällt hier)

Parkplätze / *Parking facilities*

http://www.mosbach.de/Anfahrt_Stadtplan_Parken-p-1434.html; www.maelzerei.de

Zimmerbestellung / *Reservation*

Städtisches Verkehrsamt Mosbach / *Tourist Information Mosbach* Tel.: + 49 (0) 6261 9188-0