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Joint Scientific Symposium
of the Austrian Societies of Toxicology (ASTOX), Pharmacy (ÖPhG),
Analytical Chemistry (ASAC), and Forensic Medicine (ÖGGM), and
the Comprehensive Cancer Center Vienna (CCC)

Vienna, March 21st/22nd, 2013

at University of Vienna, Pharmacy Center Althanstrasse 14, A-1090 Vienna, AUSTRIA

Programme



The Austrian Societies of Toxicology (ASTOX), Pharmacy (ÖPhG), Analytical Chemistry (ASAC), and Forensic Medicine (ÖGGM), and the Comprehensive Cancer Center Vienna (CCC) are pleased to announce a joint scientific symposium for March 2013

ASTOX was launched in January 1991. Since that time **ASTOX** is well acknowledged by academia, national and international authorities, and industry as competent partner upholding and promoting the science of toxicology in Austria. **ASTOX** organizes scientific meetings, takes care of education and professional development, is responsible for registration of qualified toxicologists according to EUROTOX and their certification as European Registered Toxicologists (ERT), provides competent advice in matters of public health and stays in touch with other societies of toxicology at the international level.

ÖPhG was initiated in 1979. The society is dedicated to promote the advancement of science, practice and education in pharmacy. ÖPhG covers the whole spectrum of pharmacy, including laboratory, clinical, and toxicological aspects and supports our members at work in academia, industry and the health service.

ASAC is an integrative platform for the exchange of experience and opinions in all scientific and practical fields of microchemistry and analytical chemistry.

ÖGGM was formed in 1965 with the aim of bringing together scientists, police, criminalists, pathologists, and members of the legal profession actively involved with the forensic sciences. The Society's objectives are to enhance the quality of forensic science by providing symposia, lectures, discussions and demonstrations encompassing the various disciplines within the science.

The **CCC** is a joint facility of the Medical University of Vienna and the Vienna General Hospital. It combines interdisciplinary and proficient medical treatment of patients suffering from cancer with clinical and basic research as well as teaching on the highest academic level. The focus of the CCC is both on the training and on further education in the field of cancer, which is attempted to be provided on every level of formation.

The symposium will deal with top issues of current scientific efforts on high level. The first day of the symposium will be devoted to "PREDICITVE TOXICOLOGY IN DRUG DEVELOPMENT", the second day to "NEW DEVELOPMENTS IN FORENSIC TOXICOLOGY" A combination of keynote and invited lectures as well as short

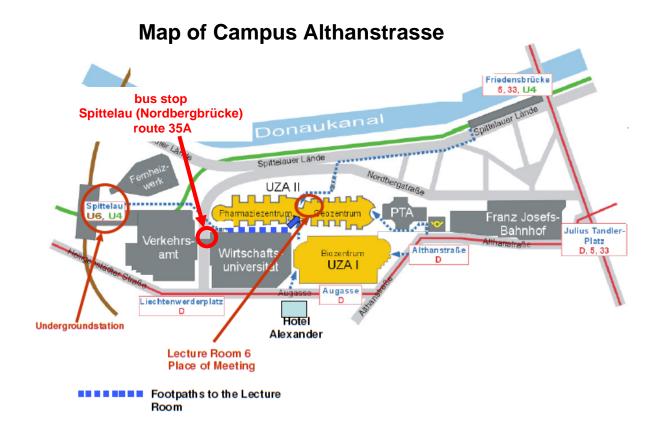
communications will address challenges to toxicology as well as progress in these specific fields. Poster presentations will be on display throughout the meeting.

We hope that you will find the symposium stimulating, On behalf of the organising committee

Bettina Grasl-Kraupp Rosa Lemmens-Gruber Wolfgang Bicker Herbert Oberacher (ASTOX/CCC) (ÖPhG/ASTOX) (ASAC/ASTOX/ÖGGM)

CONFERENCE VENUE

University of Vienna, Department of Pharmacology and Toxicology Althanstrasse 14, (acronym: UZAII) A-1090 Vienna, AUSTRIA Lecture Room 6



ORGANISATION

Organising Institutions

Austrian Society of Toxicology Department of Pharmacology and Toxicology, University of Vienna

Conference Secretariat

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Doris Marko, University Vienna
Herbert Oberacher, Innsbruck Medical University
Wolfram Parzefall, Medical University Vienna
Rolf Schulte-Hermann, Medical University Vienna
Elisabeth Weber, ASTOX

Programme

March 21st, 2013

12:00 Registration and poster placement

13.15 Welcome

PREDICTIVE TOXICOLOGY IN DRUG DEVELOPMENT 13:30 Keynote Lecture. Chair: R.Lemmens-Gruber Integrated systems for predicting toxicity and drug-drug interactions – A use case for drug transporter G. F. Ecker, Vienna 14:30 Break **Invited Contributions and Short Communications.** Chair: B. Grasl-Kraupp 14:45 Food-Drug interaction: Anthocyanins-rich preparations affect targets relevant in chemotherapy D. Marko, Vienna 15:15 Development of mechanism-based markers to predict non-genotoxic hepatocarcinogens M. Nejabat, Vienna Effect of tumour necrosis factor (TNF-α) and TNF-α lectin-like domain 15:30 derived peptides (TIP) in alveolar liquid clearance W. Shabbir, Vienna 15:45 In-silico predictive toxicological approaches in early drug development-From a regulatory perspective C. Meissner, Vienna 16.00 Poster Viewing Part I / Chair: W.W. Huber coffee and beverages available at exhibition hall 17:00 Keynote Lecture/Chair: W. Bursch Transcriptomics responses and functional endpoints in new human cell based test systems for developmental neurotoxicity M. Leist, Konstanz End of session 18:00

March 22nd, 2013

NEW DEVELOPMENTS IN FORENSIC TOXICOLOGY

08.30	Welcome by representatives of ASAC and ÖGGM
	Invited Contributions
	Chair: W. Bicker
08.45	ÖGGM and Forensic Toxicology W. Rabl, Innsbruck
09.10	Forensic toxicology – An interdisciplinary field of research
	H. Oberacher, Innsbruck
09.35	Forensic and Doping Analysis: Similarities, Dissimilarities, Disseminations
	G. Gmeiner, Seibersdorf
10.00	Poster Viewing - Part II / Chair: W.W. Huber
	Coffee and beverages available at exhibition hall
	Invited Contributions and Short Communications.
	Chair: H. Oberacher
11:15	The position of hair analysis in solving forensic-toxicological cases: Past, present, future
	H. Sachs, Munich
11:45	New synthetic psychoactive drugs – A challenge in drug prevention.
	R. Schmid, Vienna
12.15	Analytical and toxicological aspects of recreational use of synthetic cannabinoids
	W. Bicker, Vienna

ASTOX-Award

12:30	ASTOX-award for best short communication and best poster
12:45	End of the symposium
14:00	ASTOX-General Assembly (Lecture Room 6, UZAII)

POSTER CONTRIBUTIONS

POSTER VIEWING I March 21st, 4:00-5:00 pm

- P1 Classification of substrates of ADMET-relevant ABC-transporters M. Pinto, F. Klepsch, G.F. Ecker
- P2 Crucial features for the breast cancer resistance protein (BCRP/ABCG2) inhibition

 F. Montanari, G.F. Ecker
- P3 An assay-tailored threshold ameliorates accuracy of classification models for P-plycoprotein inhibitors

 B. Zdrazil, M. Pinto, J. Mestres, G.F. Ecker
- Impact of oxidative metabolism on the toxicological potential of genistein in human colon cancer cells

 K. Stornig, A. Schroeter, D. Marko
- Alternariol and altertoxin II act as possible inducers of the AhR pathway. C. Tiessen, C. Schwarz, N. Kahle, G. Pahlke, D. Marko
- The mesenchymal parenchymal interactions are critical for tumor promotion by phenobarbital

 T. Riegler, M. Nejabat, F. Kellner, R. Schulte-Hermann, W.W. Huber, B. Grasl-Kraupp B.
- Adaptive responses of preneoplastic hepatoctyes: Essential for tumor promotion by non-genotoxic hepatocarcinogens?

 <u>F. Kellner, T. Riegler, M. Nejabat, R. Schulte-Hermann, W.W. Huber, B. Grasl-Kraupp.</u>
- P8 On the mechanism of hERG channel block by propafenone analogs
 P. Saxena, T. Erker, F. Bauer, A. Weinzinger, T. Linder, S. Hering, E. Timin
- P9 Predictive toxicology in applied risk assessment regarding material qualification B.J. Majer, R. Stidl, B. Dietrich, E.M. Muchitsch
- P10 **Piperine derivatives as new GABA(A) receptor ligands**<u>A. Schöffmann</u>, L. Wimmer, T. Schwarz, T. Erker, M. D. Mihovilovic, S. Hering
- P11 Effects of oxime K048 on acetylcholinesterase activity and oxidative response in tabun exposed rats
 S. Žunec, A. Lucić Vrdoljak, N. Kopjar

POSTER VIEWING II, March 22nd, 10:00-11:15 am

- FGFR3 may be a therapeutic target for hepatocellular carcinoma

 J. Paur, D. Huber, C. Maier, W. Schrottmaier, B. Marian, W. Berger, M. Grusch, K. Holzmann, B. Grasl-Kraupp
- Impairment of the interaction between hepatocarcinoma and endothelial cells by knock-down of FGFR3 a promising anti-metastatic therapy?

 D. Huber, J. Paur, B. Marian, K. Holzmann, M. Grusch, W. Berger, B. Grasl-Kraupp
- Impact of glutathione peroxidase 4 overexpression on human hepatocellular carcinoma cells
 N. Rohr-Udilova, D. Stoiber, R. Brigelius-Flohe, <u>K. Stolze</u>, R. Eferl, M. Peck-Radosavljevic
- P15 The organic anion transporting polypeptide OATP4A1 may contribute to immunactivation in colorectal cancer and inflammatory colon disease

 S. Zotter, A. Larijani, V. Buxhofer-Ausch, C. Ausch, H. Bauer, M. Mollik, E. Bajna, C. Sebesta, R. Zeillinger, A. Reiner-Concin, T. Thalhammer
- P16 The estrogen sulfatase pathway: a potential target in ovarian cancer treatment L. Ndue, P. Allinger, S.Aust, M. Svoboda, L. Klameth, L. Secky, D. Cacsire Castilo-Tong, R. Zeillinger, T. Van Gorp, I. Vergote, I. Braicu, J. Sehouli, S. Mahner, M. Fogel, T. Thalhammer
- Conversion of 5-hydroxymethyl-5-methyl-pyrroline N-oxide to the two novel spin traps 5-acetoxymethyl-5-methylpyrroline N-oxide and 5-hexanoyloxymethyl-5-methylpyrroline N-oxide

 K. Stolze, P. Jodl, N. Rohr-Udilova, T. Rosenau
- P18 Oxidative stress and DNA interactions are not involved in enniatin- and beauvericin-induced cytotoxicity

 R. Dornetshuber-Fleiss, P. Heffeter, R. Lemmens-Gruber, L. Elbling, D. Marko, M. Micksche, W. Berger
- P19 Acetaminophen affects intestinal cell membrane properties M. R. Lornejad-Schäfer, C. Schäfer, K. R. Schröder
- P20 Influence of engineered silica nanoparticles on the proliferation and signalling pathways in gastrointestinal cells
 H. Gehrke, E-M. Fritz, D. Marko
- Establishment of a treatment scenario to detect fixed point mutations in human airway epithelia

 K. Sommer, E. Bradt, S. Constant, D. Breheny, K.R. Schröder
- P22 Rapid detection of *Amanita muscaria DNA* traces in different matrices <u>C. Gausterer</u>, M. Penker, C. Stein, T. Stimpfl
- P23 Cobalt and tungsten carbide: planning of an occupational cohort study H. Moshammer

P24 Heavy metals in patients with coronary artery disease (CAD): sex matters?

M. Sponder, B. Köhler-Vallant, M. Uhl, M. Mittlböck, J. Strametz-Juranek

The symposium is approbated by the "Österreichische Akademie der Ärzte" with 10 DFP points (5 DFP points per day) for Pharmacology & Toxicology as well as Forensic Medicine.

REGISTRATION

Please register by email to <u>bettina.grasl-kraupp@meduniwien.ac.at.</u> Deadline for submission of abstracts: **February**, **21st**, **2013**. Notification on acceptance and mode of presentation (short communication or poster) will be communicated to authors by **March 8th**, **2013**. Deadline for registration of participants not submitting an abstract: **March 11th**, **2013**.

Conference fee: \in 70,00.

Reduced fee for students €35,00

(written confirmation of student status to be provided)

Invited speakers are exempted from fee

Payment:

By bank transfer to ASTOX account: 01623 295 100, BA Creditanstalt BLZ, 12000

Schubertring 14, A-1010 Wien IBAN: AT07 1100 0016 2329 5100

BIC: BKAUATWW

Keyword: Symposium 2013

or cash payment at registration desk.

Registration on-site:

Department of Pharmacology and Toxicology, University of Vienna (in front of lecture hall HS 6)

Thursday March 21st,2013, as of 12:00

Friday, March 22nd, 2013 as of 08:00

Conference registration fee includes

- Admittance to the conference lectures and poster sessions
- Abstract book
- Coffee breaks and lunch

ABSTRACT AND POSTER FORMAT

Abstract forms are available at ASTOX homepage: (http://www.astox.at/Tagungen/index.html).

Poster should be made in portrait, poster board measurements are 130 cm (height) x 90 cm (width).

CREDITS FOR STUDENTS OF PHARMACY

Participation in Keynote Lecture on 21st March at 17:00 within the scope of Pharma and Food Lecture Series

DIRECTIONS TO CONFERENCE SITE

Arriving by car:

Western motorway/Westautobahn (called A1): leave the A1 short before Vienna and drive against Wientalstr. (B1); after 1.77 km pass the city label of Vienna; turn left and enter Stampfergasse and continue straight ahead to Bergmillergasse; turn right and enter Linzer Str.; after 1.13 km turn half left and enter Hütteldorferstr.; continue straight ahead for ~ 5.5 km; cross Urban-Loritz-Platz and turn left to enter Neubaugürtel; follow the "belt" for ~ 3.5 km; turn right to enter Nussdorferstr., then turn left to enter Viriotgasse, turn right again to enter Lichtensteinstr., turn left again to enter Althanstr., finally turn left again to enter Augasse and continue straight forward until you see the university buildings on the right side

Southern motorway/Südautobahn (called A2): [beginning at point Vösendorf] drive against A2 at point Vösendorf; leave A2 and drive against A23 at point Inzersdorf (direction Hungary, Czech Republic, Slovakia); leave A23 and drive against A4 at point Prater; after ~ 1 km pass the city label of Vienna; continue straight ahead to Schüttelstr. (B227) (leaving A4), over Untere Donaustr. (B227) and Obere Donaustr. (B227); after atotal of ~ 5 km turn half left and enter Brigittenauer Lände and turn left after ~ 0.5 km to enter Wallensteinstr.; continue straight ahead over Alserbachstr., Julius-Tandler-Platz and Althanstr., finally turn right to enter to enter Augasse and continue straight forward until you see the university builidings on the right side

Eastern motorway/Ostautobahn (called A4): [beginning at point Mannswörth] at point Mannswörth drive into direction Simmeringer Haide and continue to point Prater; after ~ 1 km pass the city label of Vienna; continue straight ahead to Schüttelstr. (B227) (leaving A4), over Untere Donaustr. (B227) and Obere Donaustr. (B227); after atotal of ~ 5 km turn half left and enter Brigittenauer Lände and turn left after ~ 0.5 km to enter Wallensteinstr.; continue straight ahead over Alserbachstr., Julius-Tandler-Platz and Althanstr., finally turn right to enter to enter Augasse and continue straight forward until you see the university builidings on the right side

Donauufer motorway/Donauuferautobahn (called A22): [beginning at point Nordbrücke] leave point Nordbrücke at descent Donaukanalbundesstr. (B227); follow the course of the street passing Nußdorfer Lände and Heiligenstädter Lände to Döblinger Gürtel; turn left to enter Nussdorferstr., then turn left to enter Viriotgasse, turn right again to enter Lichtensteinstr., turn left again to enter Althanstr., finally turn left again to enter Augasse and continue straight forward until you see the university builidings on the right side.

To the conference site from Vienna International Airport:

At Vienna International Airport use the City Airport Train heading to Landstraße/Wien Mitte; at Landstraße/Wien Mitte take the subway line U4 (direction Heiligenstadt) and deboard at Spittelau; [for the footway to the conference site see extra plan]

tickets: http://www.cityairporttrain.com/tickets/tarife/tarifuebersicht/schedule: http://www.cityairporttrain.com/fahrplan/catfahrplan/

To the conference site from the train stations:

Western Train Station/Westbahnhof: take the subway line U6 (direction Floridsdorf) and deboard at Spittelau; [for the footway to the conference site see: MAP of campus Althanstrasse]

Train Station Meidling: take the subway line U6 (direction Floridsdorf) and deboard at Spittelau; [for the footway to the conference site see: MAP of campus Althanstrasse]

HOTELS IN A-1090 WIEN (9th district, Alsergrund, closer region of conference site)

Hotel Alexander

Augasse 15, A-1090 Vienna (3 stars)

Hotel Boltzmann

Boltzmanngasse 8, A-1090 Vienna (4 stars)

Hotel & Palais Strudlhof

Pasteurgasse 1, A-1090 Wien (4 stars)

Bellevue Hotel

Althanstrasse 5, A-1090 Vienna (4 stars)

Best Western Hotel Harmonie

Harmoniegasse 5-7, A-1090 Vienna (4 stars)

Austria Trend Hotel Albatros

Liechtensteinstrasse 89, A-1090 Vienna (4 stars)

Deutschmeister

Gruenentorgasse 30, A-1090 Vienna (4 stars)

Regina Hotel

Rooseveltplatz 15, A-1090 Vienna (4 stars)

AFFILIATION OF INVITED SPEAKERS, AUTHORS OF SHORT COMMUNICATIONS AND POSTERS, AND FURTHER PARTICIPANTS

(final list will be available at the meeting)

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