



**Scientific Symposium
Austrian Society of Toxicology (ASTOX)
and
Emerging Field “Oxidative Stress and DNA Stability” (ANTIOX)**

24./25. November 2011

at

University of Vienna, Department of Nutritional Sciences,
Althanstrasse 14, A-1090 Vienna, AUSTRIA

Programme

ASTOX/ANTIOX grateful acknowledge the support by





The **Austrian Society of Toxicology (ASTOX)** and **Emerging Field Oxidative Stress and DNA Stability (ANTI-OX)** welcome you at their joint Scientific Symposium 2011 and to celebrate the 20th anniversary of ASTOX.

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.

ANTI-OX means an experimental working group focusing on lifestyle factors such as diet, single food compounds, phytochemicals, physical exercise and physiological active non-food compounds (e.g. bile pigments) on Oxidative Stress and DNA Stability. **ANTI-OX** is based in the Department of Nutritional Sciences at the University of Vienna. A large scientific network of worldwide research partners guarantees comprehensive approaches, knowledge transfer and continuous development of new biomarkers for monitoring oxidative stress in humans.

The symposium will deal on high level with top issues of current scientific efforts. The first day of the symposium will be devoted to **NANOTOXICOLOGY**, the second day to **LIFESTYLE AND DNA STABILITY**. A combination of keynote and invited lectures as well as short communications will address challenges to toxicology as well as progress to identify health risks associated with lifestyle and emerging nanotechnology. Poster presentations will be on display throughout the meeting.

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

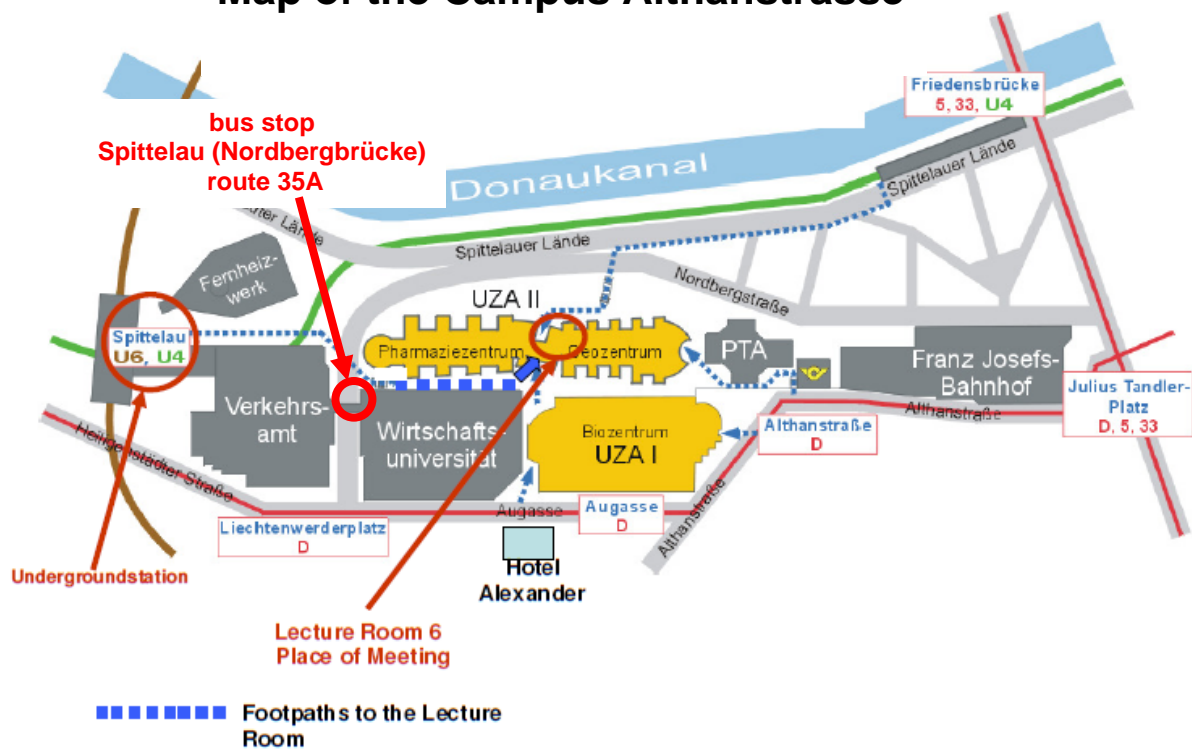
Wilfried Bursch
Chair ASTOX

Karl-Heinz Wagner
Chair ANTI-OX

CONFERENCE VENUE

University of Vienna, Department of Nutritional Sciences,
 Althanstrasse 14, (acronym: UZAI)
 A-1090 Vienna, AUSTRIA
 Lecture Room 6

Map of the Campus Althanstrasse



ORGANISATION

Organising Institutions

Austrian Society of Toxicology
Department of Nutritional Sciences, University of Vienna

Conference Secretariat

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Wolfgang Huber, MUW
Doris Marko, UNIVIE
Wolfram Parzefall, MUW
Rolf Schulte-Hermann, MUW
Karl-Heinz Wagner, UNIVIE

AGES: Österreichische Agentur für Gesundheit und Ernährungssicherheit; MUW: Medizinische Universität Wien; UNIVIE: Universität Wien

Programme

November 24th, 2011

12:00	Registration and poster placement
13:15	Welcome

NANOTOXICOLOGY

13:30	Keynote Lecture. Chair: Werner Brüller Nanotechnology: challenges for toxicology K. Donaldson, Edinburgh
14:30	break Invited Contributions. Chair: NN Bettina Grasl-Kraupp
14:45	Problems and challenges in the development of human cell-based assays to determine nanoparticle-induced immunomodulatory effects G. Oostingh, Salzburg
15:15	NanoHealth, European Center for Nanotoxicology F. Sinner, Graz
15:45	Poster Viewing I*. Chair: Wolfgang Huber Poster 1-12 coffee and beverages available at exhibition hall Short communication. Chair: Wolfram Parzefall
16:45	Nanoplatelets: - a new risk to the respiratory system? <u>A. Schinwald*</u> , K. Donaldson
17:00	Nanosilver induces epigenetic effects in an endothelial cell line. M. Nestlberger, F. Kammer, <u>A.G. Haslberger*</u>
17:15	Silica nanoparticles enhance the proliferation of human colon carcinoma cells Helge Gehrke, Ute Böttler, <u>D. Marko*</u>
17:30	Fine and ultrafine aerosols in the hospitality industry endanger personnel and customers <u>M. Neuberger *</u> , A. Schietz, V. Slavik, H. Pletz, H. Moshammer
As of 19:00	Heuriger Fuhrgassl-Huber Neustift am Walde 68, 1190 WIEN (see page 12)

* presenting author

November 25th, 2011

**EMERGING FIELD “OXIDATIVE STRESS AND
DNA STABILITY” (ANTIOX)**

- 08.30 **Keynote lecture. Chair: Karl-Heinz Wagner**
- Biomarkers of DNA damage and repair in human nutrition studies**
A. Collins, Oslo
- 09.30 **break**
- Short Communications. Chair: Rolf Schulte-Hermann**
- 09.45 **The Impact of a Dietary Intervention on Chromosomal and DNA Damage in Subjects with Type 2 Diabetes**
E. Müllner*, S. Adrigan, M. Bulla, S. Pleifer, C. Schiermayr, R. Stieglmayer, H. Brath, KH. Wagner
- 10:00 **Changes of DNA mismatch repair MLH1 promoter methylation and expression in DMT2 patients after a dietary intervention.**
O.J. Switzeny*, E. Müllner, K-H. Wagner, A.G. Haslberger
- 10:15 **Do free fatty acids in native or peroxidized form trigger the outbreak of liver inflammation?**
M. Kuttke*, T. Böhm, S. Sagmeister, N. Rohr-Udilova, H. Berger, W. Huber, B. Grasl-Kraupp
- 10.30 **Activation of the antioxidative Nrf2/ARE-pathway by coffee and selected constituents**
U. Böttler* N. Volz, H. Stiebitz, G. Bytof, I.Lantz, D. Marko
- 10:45 **Poster Viewing II*. Chair: NN**
Poster 13-20
coffee and beverages available at exhibition hall
- Invited Contributions. Chair: Doris Marko**
- 11:30 **Toxicology of heat-induced toxicants.**
G. Eisenbrand, Kaiserslautern
- 12:00 **Electrochemical Simulation of Oxidation Processes Involving Nucleic Acids.**
H. Oberacher, Innsbruck
- 12:30 **From Chemoprotection to Oxidative Stress: a multiparametric approach to evaluate the role of Nrf2-induction.**
V. Ehrlich, Lausanne

ASTOX-Award

- 13:00 ASTOX-award for best short communication and best poster
- 13:10 **Lunch break**
hinweis auf mensa
- 14:00 ASTOX-General Assembly
(Lecture Room 6, UZAI)

POSTER CONTRIBUTIONS

POSTER VIEWING I

- P1 **Analysis of Solid lipid nano particle encapsulated RV formulation for long term administration in mice**
Markus Linder, Elisabeth Kulnig, Michaela Böhmendorfer, Christine Pontasch, Jana Pardeike, Angelika Zotter, Walter Jäger, Andreas Zimmer and Akos Szakmary
- P2 **Inhibition of Mitochondria from Bovine Heart, Yeast and Leishmania by Synthetic Vitamin E Derivatives** L. Gille, L. Monzote, W. Stamberg, A. Patel, T. Rosenau, L. Maes, P. Cos
- P3 **Impact of FGFR4 Gly388Arg single nucleotide polymorphism on malignancy in hepatocarcinogenesis**
Schrottmaier W.*, Wingelhofer B.*, Gauglhofer C., Naegelen I. and Grasl-Kraupp B.
 * contributed equally
- P4 **Spin Trapping using 5-Ethoxycarbonyl-4-hydroxymethylpyrroline N-oxide and Derivatives**
K. Stolze, A. Patel, N. Rohr-Udilova, T. Rosenau
- P5 **Bioassays to Support the Analytical Assessments for the Toxicological Characterization of Complex Mixtures of Pollutants in Groundwater**
Klaus Wruss, Oliver Mann, Andreas P. Loibner, Judith Ausserbrunner, Wilfried Bursch, Karl E. Lorber, Paul Schöberl
- P6 **In Vitro Mutagenic Activation Through Inflammation-Related Processes – Bisphenol A as an Example**
 Timothy J. Schrader, Irene Langlois and Klaus Wruss
- P7 **Application of direct PCR in a forensic case of yew poisoning**
C. Gausterer, C. Stein, T. Stimpfl
- P8 **Angiotensin II causes oxidative DNA damage in vitro & in vivo**
Ph. Mandel, S. Brand and Dr. N. Schupp
- P9 **Protoporphyrin induces cancer cell damage in the SCGE assay**
 C. Mölzer, B. Pflieger, A. Roßmann, M. Wallner, A. Bulmer, K.-H. Wagner
- P10 **Anti-genotoxic properties of urobilin, stercobilin and protoporphyrin in vitro**
Mölzer C, Huber H, Steyrer A, Ziesel G, Wallner M, Bulmer A, Wagner K-H
- P11 **Bacterial bile pigment uptake is concentration dependent**
Mölzer C, Huber H, Diem K, Wallner M, Bulmer AC, Wagner K-H
- P12 **Genotoxicity of crude Alternaria extracts in human colon carcinoma cells**
C. Tiessen, C. Schwarz, D. Marko

POSTER VIEWING II

- P13 **Influence of a dietary intervention on micronuclei frequency in buccal cells of subjects with type 2 patients**
A. C. Petschnig, M. Nitz, A. Nersesyan, E. Müllner, S. Knasmüller, H. Brath, K-H. Wagner
- P14 **Aldosterone causes oxidative stress and DNA damage independent of blood pressure in vivo**
N. Queisser, N. Schupp
- P15 **Effect of daidzein and its oxidative metabolites on topoisomerase II and DNA integrity**
A. Schroeter, S. Baechler, D. Marko
- P16 **Cyclopentenone prostaglandins induce oxidative DNA-damage in hamster lung fibroblast V79 cells**
G.M. Solecki, D. Schrenk, M. Esselen
- P17 **Hybridization probes for detecting DNA adducts.**
I. Trantakis, R. Lad, S. Sturla
- P18 **The physiological importance of bilirubin: A possible chemopreventative effect?**
Wallner M, Müllner E, Marisch K, Gräfin zu Pappenheim M T, Mölzer C, Bulmer A.C., Wagner K H
- P19 **Intestinal microbial diversity influences life expectancy in p53^{-/-} mice**
Katharina Kinslechner, A. Zotter, A. Szakmary
- P20 **Bile pigments protect the DNA in oral cells**
S. Blassnigg, M. Wallner, C. Mölzer, A. Bulmer, A. Nersesyan, S. Knasmüller, K.-H. Wagner

REGISTRATION

Please register by email to wilfried.bursch@meduniwien.ac.at. Deadline for submission of abstracts: **November, 1st, 2011**. Notification on acceptance and mode of presentation (short communication or poster) will be communicated to authors by **November, 11th, 2011**. Deadline for registration of participants not submitting an abstract: **November, 14th, 2011**.

Conference fee: € 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: 1623 295 100, BA Creditanstalt BLZ, 12000
 Schubertring 14, A-1010 Wien
 IBAN: AT07 1100 0016 2329 5100
 BIC: BKAUATWW
 Keyword: Symposium 2011

or cash payment at registration desk.

Registration on-site:

Department of Nutritional Sciences, University of Vienna (in front of lecture hall)
 Thursday November 24th,2011, as of 12:00
 Friday, November 25th, as of 08:00

Conference registration fee includes

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

Coffee/tea/pastries/fingerfood will be offered during the breaks and poster sessions.

Friday (Nov25th) noon: Lunch will be offered at the Mensa...1st floor..., voucher will be provided with registration.

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 NUTRITIONAL SCIENCES

Participation: 1,5 ETS
 Poster: 2 ETS

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 a total 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 buildings 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 a total 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 buildings 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 buildings 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 disembark 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 disembark 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 disembark 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

Gruentorgasse 30, A-1090 Vienna (4 stars)

Regina Hotel

Rooseveltplatz 15, A-1090 Vienna (4 stars)

Fuhrgassl-Huber Buschenschank und Weinbau (Winery Fuhrgassl-Huber)



Neustift am Walde 68
1190 Wien
Tel: +43(0)-1-440 1405

How to reach the winery from the conference site?

Bus route 35A (direction Spittelau → Salmannsdorf)

- board at stop “Spittelau (Nordbergbrücke)”, see map of conference site.
- deboard bus at stop “Neustift am Walde” (17 minutes drive, 16th stop from Spittelau)



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