

## Scope of the symposium

Millions of humans are currently exposed occupationally to chemicals and other factors which affect the stability of the genetic material and/or cause cancer and other long term toxic effects. To protect men against such exposures, strong efforts have been made to monitor and reduce their risks. However, the development of new technologies and materials led to new challenges for scientists and health authorities. In the last years, existing biomonitoring methods were improved and standardized and new molecular epidemiological approaches were developed which enable the assessment of the impact of chemicals and radiation on genomic stability and other health related processes. These techniques have the advantage that they reflect synergistic and antagonistic effects which occur in complex exposure scenarios as well as individual differences of the sensitivity of exposed individuals. Therefore, they complement chemical analytical measurements which currently dominate occupational monitoring.

The symposium aims to inform experts and professionals in occupational and environmental medicine as well as representatives of national and international health authorities about actual trends in regard to the development of new concepts and methods and about selected "hot topics". The organizers hope that the realization of the event will stimulate further research in this area and contribute to the development of strategies which contribute to improve the prevention of occupational health hazards.

## Organizers ○

### Further information

#### Organizers

**Dr. Georg Wultsch**, Head, Medical Occupational Center (AMEZ), Graz, Austria

**Prof. Siegfried Knasmüller**, Head, Environmental Toxicology Group, Institute of Cancer Research, Internal Medicine I, Medical University of Vienna, Austria

#### Call for abstracts

Speakers and participants of symposium (which present posters) are kindly invited to submit abstracts (**till 20.8.2015**) which will be distributed to all participants

#### Instructions for abstract submission

1. Complete the abstract using MS Word (Times New Roman, 11 fonts).
2. Abstracts should contain title, authors, affiliations, e-mail address of the corresponding author, and abstract text.
3. Keep the length of abstract within 300 words (without title and affiliations).
4. Send your abstract as an attachment to **symposium.graz.2015@gmail.com**

#### Poster presentations

The poster size is A0 (841 x 1189 mm). Posters should be divided in the following main section: Introduction/ Materials and Methods/Results/Discussion and Conclusions

#### Venue:

**HSZ Hörsaalzentrum der Medizinischen Universität Graz, Auenbruggerplatz 15, 2. UG; 8036 Graz**

# Announcement

## „First International Symposium on the Impact of Occupational Exposures on DNA Stability and Human Cancer Risks“



Graz – Austria  
September 12<sup>th</sup>, 2015



## Scientific program I

**8:00-11:00** Registration

**8:45 – 9:00** Welcome addresses **J. Smolle** (Rector of the Medical University Graz); **G. Wultsch** (Head AMEZ); **D. Marko** (President Austrian Society of Toxicology)

### Session I: Methods and Examples

**9:00 – 9:25** Cytogenetic methods in occupational monitoring, **A. Nersesyan**, Medical University of Vienna, Austria

**9:25 – 9:50** Use of single cell electrophoresis assays in occupational studies, **A. Collins**, University of Oslo, Norway

**9:50 – 10:15** Epidemiological approaches in occupational medicine: methodological aspects, **M. Kundi**, Medical University of Vienna, Austria

**10:15 – 10:40** New techniques to assess DNA damage and cancer risks caused by occupational and environmental exposure to radiation, **Manoor Prakash Hande**, National University of Singapore

*Coffee break: 10:40 – 11:15 and Poster session*

### Session II: Specific Exposures (PART I)

**11:15 – 11:40** Cancer risks and DNA-damage induced by mobile phones specific electro magnetic fields, **H. Al-Serori**, Medical University of Vienna, Austria

**11:40 - 12:05** Exposure to formaldehyde, **M. Fenech**, University of Adelaide, Australia

**12:05 – 12:30** Lung Cancer caused by ETS (environmental tobacco smoke) - a new occupational disease? **H. Samonigg**, Medical University Graz, Austria

*Lunch: 12:30-13:35 (cold buffet provided by the organizers)*

### Session II: Specific Exposures (Part II)

**13:35 – 14:00** Nanoparticles and cancer, **M. Albin**, Lund University, Sweden

## Scientific program II

**14:00 – 14:25** Exposure to pesticides and herbicides, **C. Bolognesi**, National Cancer Research Institute, Genova, Italy

**14:25 – 14:50** Effects of selected heavy metals **S. Knasmüller**, Medical University Vienna, Austria

**14:50 – 15:15** Water chlorination and bladder cancer, **T. Grummt**, German Environmental Protection Agency, Bad Elster, Germany

*Coffee break: 15:15 – 15:45*

**15:45 – 16:10** Genotoxicity studies with workers in Austria: an overview, **G. Wultsch**, Medical Occupational Center, Graz; Medical University of Vienna, Austria

**16:10 – 16:35** Strategies for the definition of levels of genotoxic and non-genotoxic carcinogens, **D. Nowak**, Ludwig Maximilian University, Munich, Germany

**16:35 – 17:00** Shared historical insights from two occupational carcinogens: radon and aromatic dyes, **P. Blanc**, UCSF School of Medicine, San Francisco, USA

**17:00 – 17:25** Occupational exposures and cancer – what have we learned so far? **R. Winker**, Health and Prevention Center, Sanatorium Hera, Insurance Institution for the Vienna Employees, Vienna, Austria

**17:25 – 18:00** Combining scientific knowledge on environment-gene interaction to optimize human health, **M. Fenech**, CSIRO Adelaide, Australia

**18:00 – 18:05** The Austrian human biomonitoring platform, **M. Uhl**, Environmental Agency, Vienna, Austria

**18:05 – 18:25** Public discussion: future needs and challenges

**18:25 – 18:30** Closing remarks, **G. Wultsch** and **S. Knasmüller**, Medical University of Vienna, Austria

*Conference Dinner 20:00 - open end*

## Registration

**Deadline for registration with poster presentation is 20.8.2015. Deadline for registration without poster presentation is 1.9.2015.**

### REGISTRATION FORM I

- I will attend the symposium
- I will present a poster
- I will attend the Conference Dinner

**First name:**

**Family name:**

**Company/Institution:**

**Address:**

**City:**

**Country:**

**Zip Code:**

**E-Mail:**

**Please return this form (electronically or by fax) to: office@amez.at, FAX: +43 316 575 7584**

Phone: +43 664 421 6367 / 0043 316 575758

Dr. Wultsch, Frau Makusch

**Registration fee: Registration is free for all participants, however they are requested to register.**

Participants who wish to attend the conference dinner **requested to pay 60.- €** at the registration desk.

**Accommodation:** Speakers will be accommodated by the organizers of the conference. Other participants are requested to book hotels (e.g. via tourist web of Graz [www.graztourismus.at](http://www.graztourismus.at)). Prices are in the range between 75 and 120€/night. Nearest hotels to the conference site: Hotel „Das Weitzer“ [www.hotelweitzer.com](http://www.hotelweitzer.com); Romantik Park-hotel Graz, <http://www.parkhotel-graz.at>; Hotel Daniel Graz, [hellograz@hoteldaniel.com](mailto:hellograz@hoteldaniel.com).

**Conference dinner:** The conference dinner will be held at the restaurant “SCHLOSSBERG”, Am Schlossberg 7, 8010 Graz.