

Genotoxicity in aquatic systems: causes, effects and future needs

3rd International Symposium, Freiburg im Breisgau, Germany, 22 to 24 September 2010

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The conference will be held at the Department of Environmental Health Sciences, University Medical Center, 79106 Freiburg, Germany (<http://www.uniklinik-freiburg.de/iuk/live/index.html>)

Organizer: Institut für Umweltmedizin und Krankenhaushygiene, Department of Environmental Health Sciences, Freiburg, University Medical Center, *under the auspices of* Water Chemical Society, Division of the German Chemical Society, Working Group: Genotoxicity

Conference President: Prof. Dr. Volker Mersch-Sundermann

Scope of the Symposium: Genotoxicity, mutagenicity and carcinogenicity stand for the most adverse toxicological impacts of chemicals on human health and the environment. Therefore, as far as possible, natural water bodies like surface waters, ground waters and drinking water resources should be protected from the impact of anthropogenic pollutants with genotoxic potential. Four years since the first International Symposium, the next has now been scheduled to inform the scientific and regulatory community about advances and new strategies in the assessment of genotoxic hazards, to inform about the use of these assessments in regulatory policy and decision-making and to provide a multidisciplinary forum for the open exchange and discussion of ideas and opinions among students, research scientists, regulators and industry. Following the development of new technologies, this International Symposium will focus on several different themes:

- sources and potential hazards of genotoxic substances in aquatic systems,
- ecogenotoxicity/system level focus,
- nanoparticles in the environment,
- advanced technologies/new trends and
- regulatory use of test results for protection of aquatic biota and humans.

Each topic will include one or two invited plenary speakers, plus oral presentations selected from the submitted abstracts. Participants are invited to present platform presentations and posters. Exhibiting companies are welcome.

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Preliminary Programme, Wednesday 22nd September 2010

11:00:	Registration
12:45–13:00:	Opening/Welcome message (V. Mersch-Sundermann, M. Jekel/WChS president)
13:00–13:45:	Opening lecture – <i>Assessment of anthropogenic substances in the aquatic environment</i> (T. Grummt/Committee II-WChS, Germany)
13:45–14:30:	Coffee break/Poster viewing

TOPIC 1 Sources and potential hazards of genotoxic substances in aquatic systems (Chair: V. Mersch-Sundermann)

14:30–15:15:	Invited Lecture – <i>Properties of urban and hospital waste waters</i> (S. Knasmüller, Austria)
15:15–16:00:	Invited Lecture – <i>Genotoxicity of river water and health</i> (XQ Lu, P.R. China)
16:00–17:30:	Presentations (3 × 30 min incl. discussion)
19:00:	Conference Dinner (departure: 18:00)

Thursday 23rd September 2010

TOPIC 2 Ecogenotoxicity/system level focus
(Chair: H. Hollert)

- 9:00–9:45: Invited Lecture – *Determining ecological relevance from ecotoxicological studies* (P. White, Canada)
- 9:45–10:30: *Pharmaceuticals and environment* (K. Kümmerer, Germany)
- 10:30–11:30: Coffee break/Poster viewing
- 11:30–13:00: Presentations (3 × 30 min incl. discussion)
- 13:00–14:30: Lunch (Casino, University Medical Center)

TOPIC 3 Genotoxicity of nanoparticles in the aquatic environment (Chair: R. Gminski)

- 14:30–15:15: *Biological effects of nanoparticles* (V. Mersch-Sundermann, Germany)
- 15:15–16:00: Invited Lecture – *Exploring the genotoxic potential in the nanosize* (M. Kirsch-Volders, Belgium)
- 16:00–16:45: Coffee break/Poster viewing
- 16:45–18:15: Presentations (3 × 30 min incl. discussion)
- 19:00: Historic tour of Freiburg

Friday 24th September 2010

TOPIC 4 Advanced technology/new trends (Chair: G. Reifferscheid)

- 9:00–9:45: Invited Lecture – *Cosensors for toxicity and genotoxicity testing* (Y. Shacham-Diamand, Israel)
- 9:45–10:15: *Biosensors – Demonstrations* (S. Buchinger, Germany)
- 10:15–10:45: *AMES-II – Demonstrations* (N. Weiland, Switzerland)
- 10:45–11:30: Coffee break/Poster viewing
- 11:30–12:30: Presentations (2 × 30 min incl. discussion)
- 12:30–13:00: Closing Remarks: P. White, Canada; T. Grummt, V. Mersch-Sundermann, Germany

Scientific committee: Braunbeck, T. (Germany) · Gminski, R. (Germany) · Grummt, T. (Germany) · Hollert, T. (Germany) · Knasmüller, S. (Austria) · Kramer, M. (Germany) · Kümmerer, K. (Germany) · Mersch-Sundermann, V. · (Germany) · Reifferscheid, G. (Germany) · White, P. (Canada)

Local organization: Deborah Lawrie-Blum, Department of Environmental Health Sciences, Breisacherstr. 115B, 79106 Freiburg, Germany; Tel.: +49-761-2708206; Fax: +49-761-2708203; e-mail: deborah.lawrie-blum@uniklinikfreiburg.de

For details/program: <http://www.uniklinikfreiburg.de/iuk/live/index.html>

Registration fee: The registration fee includes the conference booklet, conference dinner, lunch on Thursday, historic tour of Freiburg and refreshments during coffee breaks.

Regular	€ 200
Student	€ 100
Accompanying person	€ 100
After August 15, 2010	
Regular	€ 250
Student	€ 125
Accompanying person	€ 125

Payment: Payment should be made in EUR by bank transfer indicating the **reference number** below and the name of the conference delegate.

Bank: Deutsche Bank AG
Account holder: Universitätsklinikum Freiburg
Bank code: 680 700 30
Account No.: 30148100
Reference No.: 1028001601
IBAN: DE 22 6807 0030 0030 1481 00
BIC: DEUTDE6F

Accommodation: There are a number of hotels of all classes in Freiburg and the surrounding area. Prices range from € 75 to 150/night. Delegates are invited to use the online hotel reservation services: <http://www.freiburg.de/or> <http://www.hrs.de/web3/>.

The organizers are happy to help with any reservations. Nearest hotel to venue: **Hotel Stadt Freiburg** (Tel.: +49-761-89680; Fax: +49-761-8095030; e-mail: info@hotel-stadt-freiburg.de)