

10th Berlin Workshop on Developmental Toxicology

25 years after the first Berlin Workshop on Developmental Toxicity we are organising the 10th Berlin workshop on Developmental Toxicology. More information is presented on the DevTox website www.devtox.org.

The “10th Berlin Workshop on Developmental Toxicology” is aimed to bring together international experts from authorities, research institutions, universities and industry to discuss the final update of the DevTox database, to consider specific aspects in regulatory risk assessment of developmental neurotoxicity and to debate alternative strategies in testing developmental effects in the future with the main goal to improve harmonisation in the worldwide assessment of developmental findings and laboratory investigations.

The topics are grouped in three different main panels. Results of the discussions will be published by the German Federal Institute for Risk Assessment (BfR):

- The DevTox-Project
- Risk Assessment – Developmental Neurotoxicity
- Future Methodology in DevTox

The 10th Berlin Workshop (BW) is a continuation of a series of Berlin Workshops. At the last BW 2018, the need for a harmonised terminology for classification of anomalies in laboratory animals in developmental toxicity studies aiming for human health risk assessment was emphasised and the DevTox database was identified as an extremely valuable tool. It was also agreed that still one of the biggest challenges for testing developmental toxicity in the 21st century is the development of animal-free test strategies and alternatives to animal testing that could provide information relevant for humans in a rapid, efficient, and mechanistically informative manner.

Presentations and main results of the 10th Workshop will be published on the BfR Website. A report of the workshop will be published in a peer reviewed journal.

Contact person:

Roland Solecki
DevTox@bfr.bund.de

Venue:

German Federal Institute for Risk Assessment
Conference centre BerlinBiotechpark
Max-Dohrn-Str. 8–10, 10589 Berlin

Directions:

www.bfr.bund.de/en/location-jungfernheide.html

Destination stop (www.bahn.de, www.bvg.de/en)

“S+U Jungfernheide”

Registration:

Registration fee: 140 €

Please register online by February 10 on the website of the BfR Academy

www.bfr-akademie.de/english/events/devtox2020.html

Hotels:

There is an agreement with a few hotels on special conditions. Please tell the hotel staff —preferably via telephone—that you are booking in the name of the BfR (Bundesinstitut für Risikobewertung) at the price of the Bund-Rate. The BfR Academy will gladly support you with the booking. A hotel close to the conference venue is Econtel Charlottenburg (+4930346810)

Contact of local organiser:

BfR Academy
Tel.: +49 (0)3018 4122400
academy@bfr.bund.de

Organiser:

German Federal Institute for Risk Assessment (BfR)
Max-Dohrn-Straße 8–10
10589 Berlin
Germany
www.bfr.bund.de/en



10th Berlin Workshop on Developmental Toxicology

19–20 February 2020, Berlin



Bundesinstitut für Risikobewertung

Wednesday 19 February 2020

11:30 am–12:30 pm **Registration**

12:30–12:45 pm

Opening and Welcome

Roland Solecki, vice-president of the BfR

12:45–01:30 pm Key lecture

25 years of harmonising nomenclature in developmental toxicity: scientific and technical improvements

Konstanze Grote / Ibrahim Chahoud, Charité, Berlin
Rupert Kellner, Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Hannover

Session I The DevTox-Project

Current status and future developments

Chair: Kohei Shiota, Kyoto University, Japan

Co-chair: Hiro Aoyama, Institute of Environmental Toxicology, Japan

Rapporteur: Ruth Clark, Ruth Clark Associates Ltd., Derrythorpe, United Kingdom

01:30–01:50 pm

Follow up activities of the Berlin Workshop with the JTS and ETS

Jochen Buschmann, Independent Consultant, Hannover, Germany

01:50–02:10 pm

New pictures in the DevTox database

Weiuhua Li; Shanghai Institute of Planned Parenthood Research

02:10–02:30 pm

Japanese proposals for update of definitions and re-categorisation of grey zone anomalies

Michio Fujiwara, Astellas Pharma Inc., Tokyo, Japan

02:30–02:50 pm

View of a developmental toxicologist from the EU on the Japanese proposal

Alberto Mantovani, Istituto Superiore di Sanità, Rome, Italy

02:50–03:10 pm

Berlin Workshop view on a new survey for re-categorisation of grey zone anomalies

Francisco Paumgarten, Fiocruz, Rio de Janeiro, Brazil

03:10–03:30 pm **Discussion**

03:30–04:00 pm **Coffee break**

Session II Risk Assessment – Developmental Neurotoxicity

Alternatives in testing developmental neurotoxicity

Chair: Susan Makris, United States Environmental Protection Agency (US-EPA), Washington, D.C., USA

Co-chair: Susanne Hougaard, Technical University of Denmark, Lyngby, Denmark

Rapporteur: Steffen Schneider, BASF SE, Ludwigshafen, Germany

04:00–04:25 pm

OECD case studies for potential testing strategies and a draft framework for a DNT testing battery

Magda Sachana, Organisation for Economic Co-operation and Development, Paris, France

04:25–04:50 pm

Advances to link test systems to the prediction of developmental neurotoxicity

Marcel Leist, Universität Konstanz

04:50–05:15 pm

Integrated approaches to testing and assessment (IATA) for developmental neurotoxicity

Ellen Fritsche, Heinrich Heine University Düsseldorf

05:15–05:40 pm

Adverse Outcome Pathways (AOPs)-driven evaluation of developmental neurotoxicity induced by mixture of environmental chemicals

Anna Ball-Price, European Commission

05:40–06:05 pm

Current advances of the US-EPA strategy for testing of developmental neurotoxicity

Elissa Reaves, US-EPA, Washington DC, USA

06:05–06:30 pm

Current advances of the strategy of Health Canada for testing of developmental neurotoxicity

Francis Bailey, Health Canada, Ottawa, Canada

06:30–07:00 pm **Discussion**

Dinner

Thursday 20 February 2020

Session III Future Methodology in DevTox

Bone development: in vitro models to elucidate mode of action

Chair: Frank Schulze, BfR

Co-chair: Annemarie Lang, Charité, Berlin

Rapporteur:

09:00–09:30 am

Research on mechanism of supernumerary rib by use of Computer Tomography (CT)

Makiko Kuwagata, National Institute of Health Sciences, Kawasaki, Japan

09:30–10:00 am

Investigating the Interaction of bone- and immune cells in osteochondral models

Annemarie Lang, Charité, Berlin

10:00–10:30 am **Coffee break**

10:30–11:00 am

Vascularisation of bone during development and growth

Ralf Adams, Max Planck Institute for Molecular Biomedicine, Münster, Germany

11:00–11:30 am

In vitro bone models - co-culture, biomaterials and bioprinting

Michael Gelinsky, Technische Universität Dresden, Dresden, Germany

11:30 am–12:00 pm

Concluding remarks and perspectives

Philip Marx-Stölting, BfR – session I

Anne Schmitt – session II

Gilbert Schönfelder – session III