

## 10<sup>th</sup> 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](http://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:

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### 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](http://www.bfr.bund.de/en/location-jungfernheide.html)

Destination stop ([www.bahn.de](http://www.bahn.de), [www.bvg.de/en](http://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](http://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.

### Contact of local organiser:

BfR Academy  
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### Organiser:

German Federal Institute for Risk Assessment (BfR)  
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## 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**

12:30–01:30 pm Key note lectures

**25 years DevTox Workshops: historic background, scientific and technical improvements**

*Roland Solecki, BfR*

*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**

*Weihua 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

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

*Anna Ball-Price, European Commission*

05:15–05:40 pm

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

*Monique Perron, US-EPA, Washington DC, USA*

05:40–06:05 pm

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

*Francis Bailey, Health Canada, Ottawa, Canada*

06:05–06:30 pm **Discussion**

**7:00 pm 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: Marize de Lourdes Marzo-Solano, BfR*

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*

*Anne Schmitt, BfR*

*Gilbert Schönfelder, BfR*