

## 9<sup>th</sup> Berlin Workshop on Developmental Toxicology as a satellite event to the 46<sup>th</sup> Annual Meeting of the European Teratology Society

Subsequent to the 46<sup>th</sup> Annual Meeting of the European Teratology Society the BfR invites the experts to discuss the classification of findings in Version 2 terminology (published by the official journals of the European, American and Japanese Teratology Societies) to improve classification of findings and laboratory investigations.

The current workshop approaches to risk assessors, risk managers and stakeholders in order to support the progress towards a harmonised human health risk assessment of plant protection products, biocidal products and other chemicals.

### Areas of Discussion

- Reduction of post-natal grey zone anomalies in laboratory animals in developmental toxicity studies
- Scientific basis for classification of chemicals as developmental toxicants aiming an independent, valid and reliable evaluation
- Comparison of developmental anomalies in laboratory animals with human data
- Exploring possibilities to support the progress towards harmonised approaches for risk assessment
- Alternative methods for risk assessment in developmental toxicity testing

The event was recognised by the German Academy for Advanced Veterinary Training as an advanced training course (ATF credit: 7 hours).

### Contact person:

Roland Solecki  
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### Venues:

#### September 13, 2018

Hotel NH Berlin Alexanderplatz  
Landsberger Allee 26, 10249 Berlin

#### Directions:

[www.nh-hotels.com/hotel/nh-berlin-alexanderplatz](http://www.nh-hotels.com/hotel/nh-berlin-alexanderplatz)

#### September 14, 2018

German Federal Institute for Risk Assessment (BfR)  
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 "Jungfernheide Bhf (S+U)"

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

### Registration:

#### Registration fee: 140 €

Please register online by September 6 on the website of the BfR Academy

[www.bfr-akademie.de/english/events/devtox2018.html](http://www.bfr-akademie.de/english/events/devtox2018.html)

### Contact:

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### Organiser:

German Federal Institute for Risk Assessment (BfR)  
Max-Dohrn-Straße 8–10  
10589 Berlin  
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13–14 September 2018, Berlin



Bundesinstitut für Risikobewertung

## Thursday, September 13, 2018 (Location NH Hotel Berlin Alexanderplatz)

1:00–1:30 pm **Registration**

1:30–1:45 pm

### Welcome and opening remarks

Reiner Wittkowski, vice-president of the German Federal Institute for Risk Assessment (BfR),  
Seamus Giles, president of the European Teratology Society (ETS)

1:45–2:10 pm

**Key note speaker: Diether Neubert, Charité Berlin**

### Session: Terminology in Developmental Toxicology

Chair: Jochen Buschmann, Independent Consultant, Hannover

Co-chair (Rapporteur): Ruth Clark, Ruth Clark Associates Ltd., Derrythorpe, United Kingdom

2:10–2:40 pm

### Update of new images and categorisation in the DevTox database

Rupert Kellner, Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Hannover

2:40–3:00 pm

### Chinese version of the DevTox database and atlas of common malformations

Weihua Li, Shanghai Institute of Planned Parenthood Research, PR China

3:00–3:20 pm

### Japanese version of the terminology and the atlas of developmental abnormalities in laboratory species

Michio Fujiwara, Astellas Pharma Inc., Tokyo, Japan

3:20–3:40 pm

### Evaluation of post-natal anomalies in the DevTox database

Ibrahim Chahoud, Charité, Berlin

3:40–4:00 pm

### Research on the mechanism of supernumerary rib development after birth using CT scanning

Makiko Kuwagata, Hatano Research Institute, Hadano, Japan

4:00–4:20 pm coffee break

### Session: Risk and hazard assessment in developmental toxicology

Chair: Roland Solecki, BfR, Berlin  
Co-chair (Rapporteur): Nathalie Delrue, Organisation for Economic Co-operation and Development (OECD), Paris, France

4:20–4:40 pm

### Regulatory aspects of developmental toxicology and endocrine effects

Roland Solecki, BfR, Berlin

4:40 pm–5:00 pm

### Classification of developmental toxic pesticides and negligible exposure – Perspective of the regulator

Alberto Mantovani, Istituto Superiore di Sanità (ISS), Rome, Italy

5:00–5:20 pm

### Classification of developmental toxic pesticides, low dose effects, mixtures – Perspective of the industry

Steffen Schneider, BASF SE, Ludwigshafen

5:20–5:40 pm

### Human data for assessment of developmental effects

Shiota Kohei, Shiga University, Japan

5:40–6:00 pm **Final discussion**

Get together/Dinner

## Friday, September 14, 2018 (Location BfR Berlin Jungfernheide, Biotechpark)

8:30–9:00 am **Welcome coffee**

9:00–9:10 am **Introductory remarks**

### Session: Alternative species in testing of developmental effects

Chair: Alberto Mantovani, ISS, Rome, Italy  
Co-chair (Rapporteur): Martina Rauch, BfR Berlin

9:10–9:30 am

### Caenorhabditis – An elegant model in developmental toxicology

Dr Silvia Vogl, BfR, Berlin

9:30–9:50 am

**The use of zebrafish in developmental toxicity studies**  
Jingying Hu, Shanghai Institute of Planned Parenthood Research, PR China

9:50–10:10 am

### Developmental toxicity assays with freshwater snails (*Biomphalaria* sp., Planorbidae)

Francisco Paumgarten, Fiocruz, Rio de Janeiro, Brazil

10:10–10:40 am coffee break

### Session: Methodology for the future

Chair: Gilbert Schönfelder, BfR, Berlin  
Co-chair (Rapporteur): Susan Makris, United States Environmental Protection Agency (US EPA), Washington, D.C., USA

10:40–11:00 am

### Computational methods and alternative methods in developmental toxicology

Nicole Kleinstreuer, National Toxicology Program, Durham, USA

11:00–11:20 am

### Improved embryonic bodies for studying development, embryotoxicity, and placental function *in vitro*

Marlon Schneider, BfR, Berlin

11:20–11:40 am

### Models used to detect skeletal anomalies: applications, limitations and future perspectives

Frank Schulze, BfR, Berlin

11:40–12:00 am

### TOX 21 – Developmental toxicology

Susan Makris, US EPA, Washington, D.C., USA

12:00 am–12:20 pm

### Stem cell-based testing methods and the use of the AOP concept for developmental neurotoxicity (DNT) evaluation

Ellen Fritsche, Leibniz Research Institute for Environmental Medicine, Düsseldorf

12:20–12:50 pm **Final discussion**

12:50 pm

### Closing remarks

Ibrahim Chahoud, Gilbert Schönfelder, Jochen Buschmann