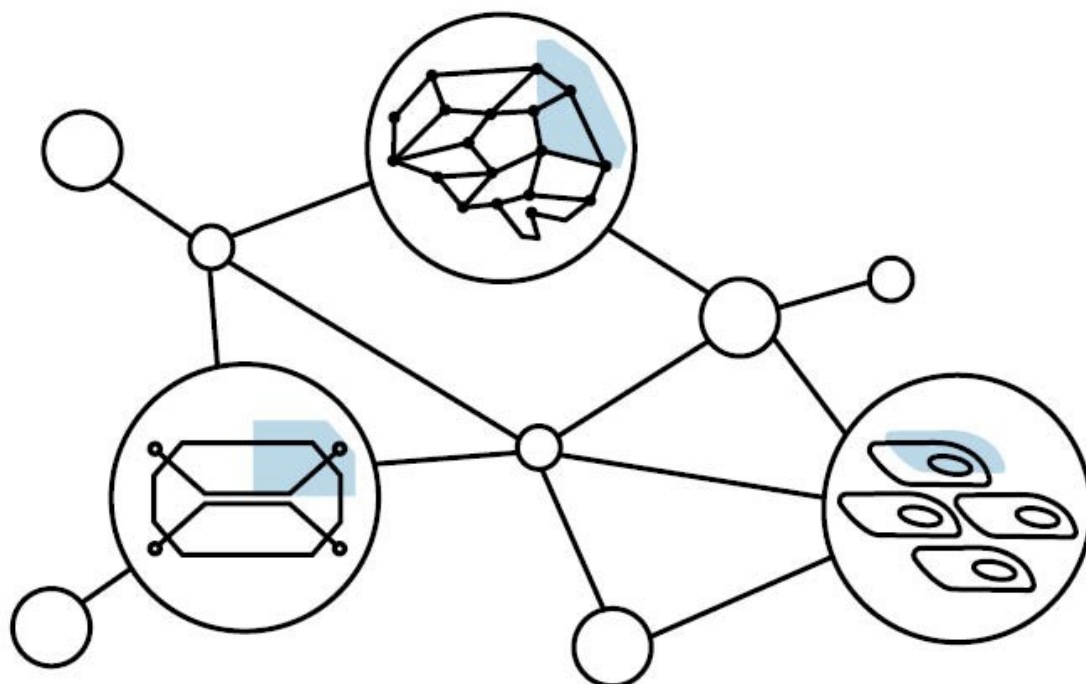




BfR-KIT Joint Symposium on Organoid Technologies and New Approaches in Biomedical Research and Toxicology

05 November 2025, Berlin,

Hybrid event, registration required for on-site and online participation.

<https://www.bfr-akademie.de/english/jointsym25.html>

BfR-KIT Joint Symposium on Organoid Technologies and New Approaches in Biomedical Research and Toxicology

The symposium aims to exchange current knowledge and scientific expertise in the development and use of new approach methodologies (NAMs) in biomedical research and toxicology. It will also honour the work of the German Centre for the Protection of Laboratory Animals (Bf3R) on the occasion of its 10th anniversary.

Experts from the German Federal Institute for Risk Assessment (BfR), the Korea Institute of Toxicology (KIT), and invited renowned scientists will present currently developed methods, including human iPSC and organoid cultures, organ-on-a-chip systems and other phenotypic approaches, which are used in biomedical research and in the identification and characterization of the potential hazard of chemicals.

The symposium is supported by the Korea-Germany R&D Network Program funded by DFG and NRF and will take place in Berlin. It aims to foster scientific collaboration and knowledge exchange between Germany and Korea to promote scientific advancements towards the replacement of animal experiments according to the 3R principle.

Programme

Wednesday, 05 November 2025

BfR Lecture Hall, Diedersdorfer Weg 1, 12277 Berlin

All session talks are scheduled for 20 min + 10 min discussion

08:45–09:00	Arrival and registration
09:00–09:15	Opening and welcome Dr Tewes Tralau, Vice-President of the BfR
09:15–09:30	Ten years of the Bf3R at the BfR – Greetings from BMLEH Representative of the German Federal Ministry of Agriculture, Food and Regional Identity (BMLEH)
09:30–09:40	Ten years of the Bf3R at the BfR – Achievements and perspectives Dr Michael Oelgeschläger, Head of the Bf3R
09:40–09:45	General remarks and opening of the sessions Dr Julian Heuberger, BfR, Berlin Dr Sebastian Dunst, BfR, Berlin

Session I: Organoids of the nervous system

Session Chair: Prof. Dr Marta Barenys Espadaler, BfR, Berlin

09:45–10:15	Brain organoid technologies to model human brain diseases Dr Agnieszka Rybak-Wolf, MDC, Berlin
10:15–10:45	Investigating developmental neurotoxicity: Insights from mouse models and human cortical organoids Dr Minhan Ka, KIT, Daejeon
10:45–11:15	Human neurospheres to evaluate the developmental neurotoxic potential of alternative plasticizers Prof. Dr Marta Barenys Espadaler, BfR, Berlin
11:15–11:30	Coffee Break

Session II: Organoids of the gastrointestinal system and the liver

Session Chair: Dr Julian Heuberger, BfR

11:30–12:00	Infection, innate immune signalling and cancer in the gut - organoids as models Prof. Dr Sina Bartfeld, TU Berlin
12:00–12:30	Advanced intestinal organoid systems to model tissue responses and regeneration Dr Julian Heuberger, BfR, Berlin
12:30–13:00	Development of Applications of hPSC-Derived Liver Organoids for Drug and Chemical Safety Assessment Dr Han-Jin Park, KIT, Daejeon
13:00–14:00	Group photo, Lunch break

Session III: Stem cell technologies, organ-on-a-chip systems, and -omics approaches

Session Chair: Dr Sebastian Dunst, BfR

14:00–14:30	Pluripotent stem cells and process automation to improve reproducibility for biomedical research Dr Sebastian Diecke, MDC, Berlin
14:30–15:00	Utilization of hiPSC-derived cardiac cell models (2D CMs and Organoids) in drug evaluation Dr Dong-Hun Woo, NEXEL Co., Ltd, Seoul
15:00–15:30	Towards next-generation liver-on-a-chip systems Dr Adrien Guillot, Charité, Berlin
15:30–16:00	Deciphering the role of YAP/TAZ in breast cancer Dr Björn von Eyss, FLI, Jena
From 16:00	Wrap up of symposium and informal get-together Time for exchange and discussion of collaboration

Organisational information

BfR-KIT Joint Symposium on Organoid Technologies and New Approaches in Biomedical Research and Toxicology

BfR

Diedersdorfer Weg 1

12277 Berlin

Organiser

German Federal Institute for Risk Assessment

Max-Dohrn-Straße 8-10

10589 Berlin, Germany

bfr.bund.de/en

Directions

Destination stop (www.bahn.de, www.bvg.de):

“Nahmitzer Damm/Marienfelder Allee (Berlin)”

Participation

Registration required for on-site and online participation.

<https://www.bfr-akademie.de/english/jointsym25.html>

The symposium is free of charge.

General contact

BfR Academy

T +49 30 18412-72405

akademie@bfr.bund.de

About the BfR

The German Federal Institute for Risk Assessment (BfR) is a scientifically independent institution within the portfolio of the German Federal Ministry of Agriculture, Food and Regional Identity (BMLEH). It advises the federal government and the federal states (“Laender”) on questions of food, chemicals and product safety. The BfR conducts its own research on topics that are closely linked to its assessment tasks.

Follow us