



Aquatic Toxins Symposium

10–11 June 2024, Berlin

Symposium on Aquatic Toxins

The German Federal Institute for Risk Assessment is looking forward to welcoming the scientific community to the symposium on Aquatic Toxins to be held June 10th and 11th 2024 in Berlin. Aquatic Toxins are derived from many sources and exist in different forms, presenting invisible dangers to human health. The goal is to exchange relevant scientific information towards a better understanding of aquatic toxins, through their formation, impacts, analytics, toxicology, and case studies. Join us in Berlin for an eye-opening journey into the fascinating world of aquatic toxins with far-reaching consequences.

Programme

Monday, 10 June 2024

13:00–13:10	Welcome Andreas Hensel President of the German Federal Institute for Risk Assessment (BfR), Berlin, Germany
13:10–14:00	Plenary talk: Effects in humans and animals from exposure to palytoxins Jonathan R. Deeds, U.S. Food and Drug Administration, College Park, USA

Session I: Toxin producers and vectors

Session Chair: TBD

14:00–14:20	TBD Sam Murray, Cawthron Institute, Nelson, New Zealand
14:20–14:40	Cyanobacteria and antibiotic resistance Maura Manganelli, Istituto Superiore di Sanità, Rome, Italy
14:40–15:00	Mechanisms underlying <i>Microcystis</i> spp. toxigenic fraction and microcystin production Charlotte Schampera, Technical University of Berlin, Germany
15:00–15:30	Coffee break

Session II: Impacts

Session Chair: TBD

15:30–15:50	The efficiency of chlorine-based treatments on <i>Microcystis aeruginosa</i> cultures by untargeted LC-HRMS Luciana Tartaglione, University of Naples Federico II, Italy
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15:50–16:10	What do we know about ichthyotoxic microalgal species and their toxins? Bernd Krock, Alfred Wegener institute Helmholtz centre for polar and marine research, Bremerhaven, Germany
16:10–16:30	Suppression of cyanobacterial blooms using hydrogen peroxide Petra Visser, University of Amsterdam, The Netherlands

Tuesday, 11 June 2024

09:00–09:10	Welcome and short review of day 1 Christopher R. Loeffler, BfR, Berlin, Germany
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Session III: Analytics

Session Chair: TBD

09:10–09:30	Bioanalytical tools for the challenging screening and quantification of marine toxins Mònica Campas, Institute of Agrifood Research and Technology IRTA, La Ràpita, Spain
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09:30–09:50	Advances in reference materials for marine and freshwater toxins Pearse McCarron, National Research Council, Canada
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09:50–10:10	Risks associated to biotoxins from New Caledonian microalgae Manoëlla Sibat, French Institute for Ocean Science, Nantes, France
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10:10–10:30	A generic LC-HRMS screening method for marine and freshwater phycotoxins Mirjam Klijnstra, Wageningen Food Safety Research, The Netherlands
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10:30–11:00	Coffee break
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Session IV: Toxicology and risk assessment

Session Chair: TBD

11:00–11:20	Toward hazard characterisation and risk management of ovatoxin-a: an improved isolation procedure from <i>Ostreopsis cf. ovata</i> Michela Varra, University of Naples Federico II, Italy
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11:20–11:40	Linking research and surveillance for the risk assessment of emerging marine toxins – presence and future Jorge Diogène, Institute of Agrifood Research and Technology IRTA, La Ràpita, Spain
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11:40–12:00	Discovery and mode of action of a novel cyclic imine toxin active on nicotinic acetylcholine receptors Rómulo Aráoz, University of Paris-Saclay, France
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12:00–12:20	ANSES recommendations to prevent human poisoning linked to the proliferation of <i>Ostreopsis</i> on the south-west French Atlantic coast Ronel Biré, French Agency for Food, Environmental and Occupational Health & Safety, Maisons-Alfort, France
12:20–13:30	Lunch break
13:30–13:50	Insights into the toxicity of <i>Prymnesium parvum</i> toxins Elisabeth Varga, University of Veterinary Medicine Vienna, Austria
Session V: Case examples/exposures Session Chair: TBD	
13:50–14:10	Ciguatera-outbreaks in Germany due to imported tropical fish Miriam Friedemann, BfR, Berlin, Germany
14:10–14:30	Current CTX occurrence and official monitoring on the Canary Islands Fernando Real Valcárcel, University of Las Palmas de Gran Canaria, Spain
14:30–14:45	Final discussion
14:45–15:00	Closing remarks Christopher R. Loeffler, BfR, Berlin, Germany

Organisational information

Venue

Kaiserin-Friedrich-Hörsaal
Robert-Koch-Platz 7
10115 Berlin
Germany

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):
“Robert-Koch-Platz (Berlin)”

Registration

Standard rate: 210.00 €
Students: 70.00 €
employee of an institution within the BMEL's portfolio
(incl. BfR): 0.00 €
Please register online by 26.05.2024 on
www.bfr-akademie.de/english/aquatic-toxins-2024.html

General contact

BfR Academy
T +49 30 18412-22405
akademie@bfr.bund.de

Expert contact

nrl_marinebiotoxine@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 Food and Agriculture (BMEL). 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.

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