

Aquatic ToxinsSymposium

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 20	24
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 pro	ducers and vectors
Session Chair: Elisabet	th Varga, University of Veterinary Medicine Vienna, Austria
14:00–14:20	Sampling of toxic harmful microalgae in the South Pacific basin
	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 spp.</i> toxigenic fraction and microcystin production
	Charlotte Schampera, Technical University of Berlin, Germany
15:00–15:30	Coffee break
Session II: Impacts	
Session Chair: Jorge D	iogène, Institute of Agrifood Research and Technology IRTA, La Ràpita, Spain
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

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	
Session III: Analy	rtics	
Session Chair: Petr	a Visser, University of Amsterdam, The Netherlands	
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	
09:30-09:50	Advances in reference materials for marine and freshwater toxins	
	Pearse McCarron, National Research Council, Canada	
09:50-10:10	Implementation of analytical approachs for a first evaluation of risk associated to biotoxins in New Caledonia waters	
	Manoëlla Sibat, French Institute for Ocean Science, Nantes, France	
10:10-10:30	A generic LC-HRMS screening method for marine and freshwater phycotoxins	
	Mirjam Klijnstra, Wageningen Food Safety Research, The Netherlands	
10:30-11:00	Coffee break	
Session IV: Toxic	ology and risk assessment	
Session Chair: Pear	rse McCarron, National Research Council, Canada	
11:00–11:20	Toward hazard characterisation and risk management of ovatoxin-a: an improved isolation procedure from Ostreopsis cf. ovata	
	Michela Varra, University of Naples Federico II, Italy	
11:20–11:40	Linking research and surveillance for the risk assessment of emerging marine toxins – present and future	
	Jorge Diogène, Institute of Agrifood Research and Technology IRTA, La Ràpita, Spain	
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	

12:00-12:20	ANSES recommendations to prevent human poisoning linked to the proliferation of Ostreopsis 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 e	examples/exposures
	nica Campas, Institute of Agrifood Research and Technology IRTA, La Ràpita, Spain
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

Directions

Destination stop (<u>www.bahn.de</u>, <u>www.bvg.de</u>): "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

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Organiser

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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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