

CV

Bernd Krock

Nationality: German

Affiliation: Alfred Wegener Institut-Helmholtz Zentrum für Polar- und Meeresforschung, Am Handelshafen 12, 27570 Bremerhaven, Germany; Ph: +49-471-4831-2055; E-mail: bernd.krock@awi.de

Education and professional career:

2022-present Associated researcher to COPAS Coastal, University of Concepción, Chile

2005-present Senior Scientist, Ecological Chemistry, Alfred Wegener Institut, Bremerhaven

1998-2005 Scientific engineer position at the MPI for Chemical Ecology in Jena

1993-1997 Research assistant at the University of Jena, PhD

1992-1993 Research assistant at the University of Stuttgart

1990-1992 Study of the Chinese language at the University of Ulm, graduation: intermediate test

1987-1991 Study at the University of Ulm, emphasis: analytical chemistry, graduation: diploma

1981-1986 Study of chemistry at the University of Konstanz

Research field: Thirty years of doctoral and post-doctoral experience in the field of analytical chemistry and the analysis of organic trace compounds. In the last twenty years specialization on secondary metabolites of plants/algae and ecologically relevant signalling compounds. In the recent years focus on the detection of algal toxins, including development of new detection techniques, implementation of advanced LC-MS/MS methods on-board ship and search and discovery of new algal toxins as well as their producing organisms. Currently working as senior scientist at the Alfred Wegener Institut, Bremerhaven, in the section "Ecological Chemistry" in the working group "Chemical Ecology of Marine Protists".

Funding

2021-2024 BMBF 01LP2007A, title: ReHaDiCC

2021-2023 DAAD-CONICET (reference: PPP Argentinien, grant #: 57570740, title PhytoNorpat)

2020-2023 EU: (grant no. 872690; H2020-MSCA-RISE-2019, title: CoastCarb)

2017-2022 BMBF LAT16STRUC-039, title DynAMo

2017-2020 BMBF 03F0763A, title: RiPAZA

2016-2018 FONCyT PICT-2014-3091 (Argentina): Dinámica planctónica y vectorización de ictotoxinas hacia consumidores de niveles superiores en tramas tróficas pelágicas de la región de El Rincón - Golfos Norpatagónicos

2015-2017	BMBF-MINCYT (reference: ARG14WTZ-020) RETCEL
2015-2016	DAAD-MINCYT: (reference: PPP Argentinien, grant #: 57130105) Detection of phycotoxins in Monte Hermoso, Argentina
2013-2016	EU: (grant no. 318718I; FP7-people-2012-IRSES, title: IMCONet)
2013-2015	Danish Research Council - Nature and Universe: (Grant number: DFF - 1323-00258, title: Grazer-Phytoplankton Interactions in a Co-evolutionary Context in a changing Arctic Ecosystem (GPICA))
2012-2017	The Danish Council for Strategic Research: title HABFISH
2012-2015	FONDECYT (Chile): grant number 11121554, title: Function metagenomic of whole microbial communities associated to Antarctic marine invertebrates: diversity and bioactive compounds synthetic capabilities
2012-2014	BMBF 01DN12102, title: Investigation of toxic algae in Antarctic coastal waters
2012-2014	BMBF 01DN12076, title: Interactions between biogeochemistry and plankton composition of the Argentine Continental Shelf
2009-2013	ASTOX2: (multi-national research project reference: PBA/AF/08/001, title: Azaspiracids: Toxicological Evaluation, Test Methods and Identification of the Source Organism) financed by the European Regional Development Fund through the Irish National Development Plan 2007-2013.

Expeditions

Approved	RV Sonne, Chilean Fjords & Channels
November/December 2022	RV Polarstern PS133/2, South Georgia
June 2022	MS Le Commandant Charcot, Arctic (Chief scientist)
January/February 2022	RV Meteor, Tierra del Fuego, Drake Passage (Chief scientist)
September 2021	RV Tübitak Marmara, Black Sea (Chief scientist)
August/September 2020	RV Uthörn, North Sea, Limfjorden, West Baltic Sea (Chief scientist)
November 2019	RV Cabo de Hornos, Southeast Pacific
July/August 2018	RV Heincke, Scotland-Ireland (Chief scientist)
June/July 2017	RV Merian, Greenland (Dep. Chief scientist)
December 2016	RV Puerto Deseado, Southwest Atlantic, Burdwood Bank
June 2016	RV Uthörn, Limfjorden (Chief scientist)
December 2015	GARS/O'Higgins Station, Westantarctic Peninsula
July 2015	RV Heincke, Norway
April 2015	Arctic Station, Qeqertarsuaq, Greenland
December/January 2014	Dallmann Laboratory, KGI, Antarctica
Jan 2013	Escudero Station, KGI, Antarctica
July/August 2012	RV Merian, Greenland
March/April 2012	RV Puerto Deseado, Southwest Atlantic, Austral Patagonia
May/June 2011	RV Heincke, Faroe Islands
October 2010	RV Puerto Deseado, Southwest Atlantic, El Rincón
April/May 2009	RV Heincke, Scotland-Ireland (Chief scientist)
July 2008	RV Uthörn, Skagerrak
June/July 2007	RV Poseidon, Scotland-Norway

Advisor of Assistant Researcher Career

Since 2020: Valeria D'Agostino (CONICET, Argentina)

Supervised PhD students:

Since 2022: Simon Tulatz (Bremen University, Germany)
Since 2021: Kristof Möller (Bremen University, Germany)
Since 2020: Fernando Ramírez (Universidad Nacional del Sur, Argentina)
2017-2021: Joyce Nieva (Kiel University, Germany)
2017-2020: Stephan Wietkamp (Bremen University, Germany)
2016-2020: Jana Geuer (Oldenburg University, Germany)
2014-2018: Elena Fabro (Universidad de La Plata, Argentina)
2008-2011: Haiyan Ma (Bremen University, Germany)
2005-2007: Susann Hiller (Jena University, Germany)

Postgraduate courses:

January 2019: Research on Ecological and Biogeochemical Aspects of HABs using Mass Spectrometric Techniques, Austral Summer Institute 2019, University of Concepción, Chile

May 2018: Marine Biotoxins and their Origin, Medical University Varna, Bulgaria

October 2017: Detección de ficotoxinas a través de cromatografía líquida acoplada con espectrometría de masas tándem (LC-MS/MS), IADO, Bahía Blanca, Argentina

June 2016: Triple quadrupole mass spectrometry as a sophisticated tool for marine and polar science, University of Naples, Italy

November 2014: Mircoalgas marinas nocivas: biología y toxicidad, Universidad Técnica Nacional-Facultad Regional Chubut, Pto. Madryn, Argentina

Publications:

More than 220 scientific publications, conference papers, book chapters, etc.:

<https://epic.awi.de/view/ldapid/bkrock.html>