

Prof. Dr. Angelika Brandt, Professor (Senckenberg Research Institute and Natural History Museum, Senckenberganlage 25, 60325 Frankfurt am Main, and Goethe-Universität Frankfurt, Biozentrum, Campus Riedberg, Max-von-Laue-Str. 13, 60439 Frankfurt am Main abrandt.brandt@senckenberg.de https://en.wikipedia.org/wiki/Angelika_Brandt

Research focus: systematics, ecology, evolution, biogeography and biodiversity of macrofauna with focus on Isopoda (Crustacea, Peracarida), primarily from deep sea and polar habitats.

Curriculum vitae – Prof. Dr. Angelika Brandt	
<i>Professional employment and academic education</i>	
03/2022 –	Member of the Board of Directors of the Senckenberg Society of Nature Research
04.2017 –	Professor for Marine Zoology at the Goethe-University Frankfurt and at the Senckenberg Research Institute and Natural History Museum
04.2017 –	Head of department “Marine Zoology” at the Senckenberg Research Institute and Natural History Museum
12.1995 – 31.3.2017	Professor for Zoology at the University of Hamburg and curator for Crustacea and Polychaeta.
11.2009 – 31.3.2017	Deputy Head of the Zoological Museum of the University of Hamburg.
09.2004 – 11.2009	Head of the Zoological Museum of the University of Hamburg.
01.1989 – 02.2024	31 expeditions with RVs to the Arctic, South, Pacific, and Atlantic Oceans and the Sea of Japan and Kuril-Kamchatka Trench, Aleutian and Japan Trenches and adjacent abyssal including tasks as expedition leader.
01.1992 – 11.1995	Scientific assistant in the special research project 313, work in the North Atlantic on particle flux and community structure with regard to environmental changes.
03.1987 – 12.1990	Scientific assistant at the University of Oldenburg (PhD student).
06.1989 – 11.1989	Scientific assistant at Scripps Institution of Oceanography, La Jolla, USA
<i>Scientific theses supervised</i>	
37 Diploma, 30 Bachelor, 28 Master, and 33 PhD students (4 of these are ongoing)	
- The encouragement of young female researchers is important for me.	
- Most former students are successful in their career paths: e.g.	
- Dr. Katrin Linse (senior scientist, BAS, British Antarctic Survey, Cambridge, UK);	
- Dr. Anne-Nina Lörz (senior scientist, NIWA research institute, Wellington, New Zealand);	
- Dr. Stefanie Kaiser (senior scientist, NOC, National Institute for Oceanography, Southampton, UK);	
- Dr. Saskia Brix (senior scientist, DZMB, Senckenberg).	
- Prof. Dr. Jürgen Guerrero Kommritz (Professor, University of Colombia, Bogota).	
- Four of my students (Dr. Katrin Linse, Dr. Stefanie Kaiser, Sarah Schnurr MSc), received the BMBF (Federal Ministry of Education and Research) award “Annette-Barthelt-Award for Marine Science” in 2001, 2010, and 2014 as well as my mentee Dr. Agnes Weiner who works on Foraminiferans in 2015.	
<i>Selected awards</i>	
- Carlo Heip Excellence Award in Marine Biodiversity 2022 by (IABO)	
- Recognition as outstanding female Antarctic researcher (Wikipedia biography)	
- Member of the Academy of Sciences, Humanities, and Literature Mainz in 2012	
- SCAR Medal for excellences in Polar Sciences in July 2008 in St. Petersburg	
- ANDEEP publication (Nature, 2007) designated “one of the 10 most important scientific results of the year 2007” by the TIME MAGAZINE	
- Adventurer of the Year 2007 by the National Geographic Society	
- Fellow of the Linnean Society since 2003	

<ul style="list-style-type: none"> - Awarded for diploma and PhD thesis (“Annette-Barthelt-Award for Marine Science”) - Host of three Post-Docs of the Alexander von Humboldt Foundation
<p>Selected public services and accomplishments</p> <ul style="list-style-type: none"> - Expert team leader of “Clean Ocean” team for UN decade for ocean science and sustainability kick-off meeting 17.-17.11.2021 - Speaker for research field “systematics and taxonomy” at Senckenberg - Steering Committee of SOOS (Southern Ocean Observing System) (2011 -2015) - Vice President - German Society for Polar Research (DGP) (2010 -2015) - Advisory board of ESF ERICOM-RV Aurora Borealis Science (ESAP) Member (2009 -2012) - Vice President of the German Society for Marine Research (DGM) (2009 -2016) - German commission for the International Polar Year (2003 -2009) - Editorial Boards, e.g. Journal of Marine Biodiversity (Springer) (2008 -) - Chairman of the Cooperation of Science Collections Hamburg (VNSH) (2008 -2017) - Chairman of NORe Cooperation (Museums of North- and Baltic Sea Region) (2008 -2016) - Steering Committee member of many international programs (e.g., CeDAMar (Census of the Diversity of Abyssal Marine Life) and CAML (Census of the Antarctic Marine Life), SOOS (Southern Ocean Observing System). - LA-SCAR (Scientific Committee of Antarctic Research) (2001-2009) - Member of SCAR-EBA (Evolution and Biodiversity of Antarctic organisms) steering committee in LSSSG (Life Sciences Scientific Standing Group) (2004 -) - Expert commission of the environmental agency of the ministry for nature conservation and nuclear safety (2006 - 2012) - Scientific advisory board - German Fisheries Research Institution (2004 - 2008) - Advisory board for shiptime of RV Meteor, Alkor, etc. (2002 -2012) - Advisory board for shiptime of RV Polarstern (2007-2013) - 1999 Founding committee of the DZMB (German Center for Marine Biodiversity) - 2002 Founding Member of CeDAMar (an international consortium for the census of biodiversity in the Deep Sea) - 14.-16.5.2012 Evaluation of the Zoological Museum of Copenhagen (Science Advisory Board) - 7.2012 – Member of the “Akademie der Wissenschaften und der Literatur Mainz“ - 2014 –NORe becomes a member of Cetaf - 2014/2015 – Deputy chief Scientist Maiden expedition of the new German deep-sea RV Sonne (Vema-TRANSIT). - 2016 – Chief Scientist Expedition KuramBio II (Kuril Kamchatka Biodiversity studies) with the new German deep-sea RV Sonne. - Head of the specialist group “Clean Ocean” in the specialist committee to organize the kick-off event for the UN Decade for Ocean Research and Sustainability 2021 - Group chair of the Biology Section in the GDNÄ Board of Directors 2021-2022 - Lead of Clean-Ocean Laboratory of the UN Decade of Ocean Sciences for Sustainable Development (11/2021) - 2022 – Chief Scientist Expedition AleutBio (Aleutian Biodiversity Studies) with the new German deep-sea RV Sonne. - 2023 – Expedition with RV Hakuho Maru to the Japan Trench (12.9.-2.10.2023)
<p>Review tasks</p> <ul style="list-style-type: none"> - for more than 30 peer-reviewed journals (e.g., Nature, Current Biology, Marine Biology, Marine Ecology Progress Series, Polar Biology, Antarctic Science; Marine Biodiversity) as well as funding agencies (Germany, UK, New Zealand: DFG, DAAD, ANARE, NERC)
<p>Publication summary</p> <ul style="list-style-type: none"> - Research papers 317; books: 12 - Journal volumes edited: 11, 8 in (DSR II), +1 Zootaxa + 1 Journal of Marine Systems and Engineering + 1 PROOCE

- Popular articles, short research papers and notes: 170
- Online datasets 23
- Scientific films: 1

10-publications – Prof. Dr. Angelika Brandt

10 selected peer-reviewed publications

1. Cordier, T., Angeles, I.B., Henry, N., Lejzerowicz, F., Berney, C., Morard, R., **Brandt, A.**, Cambon-Bonavita, M.-A., Guidi L., Lombard, F., Martinez Arbizu, P., Massana, R., Orejas, C., Poulain, J., Smith, C.R., Wincker, P., Arnaud-Haond, S., Gooday, A.J., de Vargas, C., Pawlowski, J. (2022): Patterns of eukaryotic diversity from the surface to the deep-ocean sediment. *Science Advances*, 2022-02-04 | Journal article, DOI: 10.1126/sciadv.abj9309.
2. Riehl, T., Wöfl, A.-C., Augustin, N., Devey, C.W., **Brandt, A.** (2020): Discovery of widely available abyssal rock patches reveals overlooked habitat type and prompts rethinking deep-sea biodiversity. *PNAS* 1-10. www.pnas.org/cgi/doi/10.1073/pnas.1920706117; <https://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1920706117/-/DCSupplemental>.
3. Ingels, J., Aronson, R., Smith, C., Baco, A., Bik, H., Blake, J., **Brandt, A.**, Cape, M., DeMaster, D., Dolan, E., Domack, E., Fire, S., Geisz, H., Gigliotti, M., Griffiths, H., Halanych, K., Havermans, C., Huettmann, F., Ishman, S., Kranz, S., Leventer, A., Mahon, A., McClintock, J., McCormick, M., Mitchell, B., Murray, A., Peck, L., Rogers, Alex; R., Shoplock, B., Smith, K., Steffel, B., Stukel, M., Sweetman, A., Taylor, M., Thurber, A., Truffer, M., Van de Putte, A., Vanreusel, A., Zamora-Duran, M. (submitted): Antarctic Ecosystem Responses following Ice Shelf Collapse and Iceberg Calving: Science Review and Future Research. *WIREs Climate Change*, p 1-28. <https://doi.org/10.1002/wcc.682>
4. Di Franco D., Linse K., Griffiths H.J., Haas C., Saeedi H. and **Brandt A.** (2020): Abundance and Distributional Patterns of Benthic Peracarid Crustaceans from the Atlantic Sector of the Southern Ocean and Weddell Sea. *Front. Mar. Sci.* 7:554663. doi: 10.3389/fmars.2020.554663
5. **Brandt, A.**, Alalykina, I., Brix, S., Brenke, N., Błażewicz, M., Golovan, O., Heitland, N., Hrinko, A.M., Jażdżewska, A.M., Jeskulke, K., Kamenev, G., Lavrenteva, A., Malyutina, M., Riehl, T., Lins, L. (2019): Depth zonation of Northwest Pacific deep-sea macrofauna. *Progress in Oceanography* 176 (2019), pp 1-10102131; <https://doi.org/10.1016/j.pocean.2019.102131>
6. Saeedi, H., Costello, M.J., Warren, D., **Brandt, A.** (2019): Latitudinal and bathymetrical species richness in the NW Pacific and Arctic Ocean. *Nature Scientific Reports*, 2019; 9:9303, 1-10, | <https://doi.org/10.1038/s41598-019-45813-9>.
7. Kohlbach, D. et al., **Brandt, A.** (2018): Dependency of Antarctic zooplankton species on ice algae-produced carbon suggests sea ice-driven ecosystem during winter. *Global Change Biology*; 1-15. DOI: 10.1111/gcb.14392
8. **Brandt, A.**, Linse, K., Ellingsen, K., Somerfield, P. (2016): Depth-related gradients in community structure and relatedness of bivalves and isopods in the Southern Ocean? *Progress in Oceanography* 144: 25–38, doi: <http://dx.doi.org/10.1016/j.pocean.2016.03.003>
9. Kennicutt II M., Chown S.L., Cassano J., Liggett D., Massom R., Peck L., Rintoul S., Storey J., Vaughan D., Wilson T., Allison I., Ayton J., Badhe R., Baeseman J., Barrett P., Bell R., Bertler N., Bo S., **Brandt A.**, Bromwich D., Cary C., Clark M., Convey P., Costa E.S., Cowan D., Deconto R., Dunbar R., Elfring C., Escutia C., Francis J., Fricker H., Fukuchi M., Gilbert N., Gutt J., Havermans C., Hik D., Hosie G., Jones C., Kim Y., Le Maho Y., Lee S.H., Leppe M., Leichenkov G., Li X., Lipenkov V., Lochte K., López-Martínez J., Lüdecke C., Lyons W., Marensi S., Miller H., Morozova P., Naish T., Nayak S., Ravindra R., Retamales J., Ricci C., Rogan-Finnemore M., Ropert-Coudert Y., Samah A.A., Sanson L., Scambos T., Schloss I., Shiraishi K., Siegert M.J., Simões J., Sparrow M., Storey B., Wall D., Walsh J., Wilson G., Winther J.G., Xavier J., Yang H., Sutherland W.J. (2014). Six priorities for Antarctic science. *Nature* 512, 23-25. (2014): Six priorities for Antarctic science. *Nature comment* 521: 23-25, suppl. 7 pp.

10. **Brandt A**, Gooday AJ, Brix SB, Brökeland W, Cedhagen T, Choudhury M, Cornelius N, Danis B, De Mesel I, Diaz RJ, Gillan DC, Ebbe B, Howe J, Janussen D, Kaiser S, Linse K, Malyutina M, Brandao S, Pawlowski J, Raupach M (2007). The Southern Ocean deep sea: first insights into biodiversity and biogeography. *Nature* 447, 307-311.

Scientific journal volumes edited

1. Brandt, A. & Hilbig, B. (2004): ANDEEP (ANTarctic benthic DEEP-sea biodiversity: colonization history and recent community patterns) - a tribute to Howard L. Sanders. *Deep-Sea Research II*, 51 (14-16): 1457-1919.
2. Brandt, A. & Ebbe, B. (2007): ANDEEP III ANtarctic benthic DEEP-sea biodiversity: colonisation history and recent community patterns. *Deep-Sea Research II*, 54(16-17): 1645-1904.
3. Brandt, A. & Ebbe, B. (2011): Southern Ocean biodiversity - from pelagic processes to deep-sea response. *Deep-Sea Research II* (19-20): 1945-2050.
4. Malyutina, M. & Brandt, A. (2013): SoJaBio (Sea of Japan Biodiversity study). *Deep-Sea Research II* (guest editors) 86-87: Pages 1-238.
5. Schüller, M., Brandt, A., Ebbe, B. (2013): Diversity of Southern Ocean deep-sea benthos between cosmopolitanism and crytic speciation: new species from the ANDEEP expeditions. *Zootaxa* 3692: 1-258.
6. Brandt, A., Würzberg, L. (2014): Southern Ocean deep sea – a benthic view to pelagic processes. *DSR II*: 108: 1-112.
7. Brandt A., Malyutina, M.V. (eds.)(2015): The German-Russian deep-sea expedition KuramBio (Kurile Kamchatka Biodiversity Studies) to the abyssal area of the Kuril-Kamchatka Trench on board of the RV Sonne in 2012 following the footsteps of the legendary expeditions with RV Vityaz. *Deep-Sea Research II* 111: 1-405.
8. Brandt, A. (2016): "Research Tools and Methods for Marine Species Acquisition and Identification". *Journal of Marine Science and Engineering*.
9. Brandt A., Kaiser, S., Riehl, T. (eds.) (2018): bathymetry of the Vema-Fracture Zone and Puerto Rico Trench and Abyssal Atlantic Biodiversity Study (Vema-TRANSIT). *Deep-Sea Research II*
10. Malyutina, M.V., Chernyshev, A.V., Brandt, A. (eds.) (2018): SokhoBio (Sea of Okhotsk Biodiversity Studies). *Deep-Sea Research II* 154: 1-382.
11. Brandt A., Brix, S., Malyutina, M.V., Riehl, T. (eds.) (2018-2020): Biodiversity and biogeography of the abyssal and hadal Kuril-Kamchatka Trench and adjacent NW Pacific deep-sea regions. *Progress in Oceanography*.

In total 31 research expeditions, listed only since 2012

- 2012 ANT XXVIII/3 Expedition RV „Polarstern“(SYSTCO II) Southern Polar Front (1.2012-3.2012)
- 2012 Expedition KuramBio (Kurile-Kamchatka Biodiversity Studies) RV „Sonne“ (7.2012-9.2012) (expedition leader A. Brandt)
- 2014 Expedition Vema-TRANSIT “Bathymetry of the Vema-Fracture Zone and Puerto Rico Trench and Abyssal Atlantic Biodiversity Study (TRANSIT)” RV „Sonne“ (15.12.2014-16.1.2015)
- 2015 Expedition RV „Akademik Lavrentyev“ Sea of Okhotsk (6.-7.2015)
- 2016 RV „James Clarke Ross“ (JR15005), South Orkney Islands (25.2.-25.3.2016)
- 2016 Expedition KuramBio II (Kurile-Kamchatka Biodiversity Studies) RV „Sonne“ to the Kuril-Kamchatka Trench 16.8.-26.9.2016 (expedition leader A. Brandt)
- 2018 Expedition with RV “James Clarke Ross” (JR17003a) to Larsen-C Ice shelf, western Weddell Sea (21.2.-15.3.2018)
- 2019 Expedition with FS “Polarstern” (PS118) to the Larsen-C ice shelf, western Weddell Sea (9.2.-10.4.2019)
- 2022 Expedition AleutBio (Aleutian Biodiversity Studies) with the new German deep-sea RV Sonne.
- 2023 (11.9.-2.10.) Expedition RV Hakuho Maru (23-5) to the Japan Trench