

Dr. Peter Bartsch

Museum für Naturkunde Berlin (MfN)
Science Program: Collection Development
Department of Collections

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Tasks

Curator of Ichthyology

Laboratory Manager of Histology

Project Coordinator for Building

Co-Editor and Managing Editor of "Zoosystematics & Evolution" – ZSE of the Museum

Research Interests

Main research interests focus on the evolution and systematics of the major clades of osteichthyan fishes, based on the morphology of fossil and Recent taxa and the structure and ontogeny of ancient vertebrate groups of the Recent fauna: function, early ontogenetic development, and reproductive biology.

General logistics, function and development of research collections form a more recent focus of work.

Education

- 1978 - 1985 Student enrolled in biology at the University of Köln, Diploma thesis January 3, 1985
- 1985 - 1987 PhD student and Dissertation at University of Köln, funded by Federal State Graduate Program (Landesgraduertenförderung Nordrhein-Westfalen)
- 1987 Dissertation finished and Doctoral degree assigned May 16, 1987; theme: "Funktionelle Morphologie und Evolution des Axialskelettes und der Caudalis ursprünglicher Knochenfische" ("Functional Morphology and Evolution of the Axial Skeleton and Caudal Fin of Basal Osteichthyan Fishes")

Professional Appointments

- 1987 - 1988 Employment as a research assistant at the Zoological Institute (Dept. of Experimental Morphology, Prof. A. Egelhaaf) of the University in Köln
- 1988 - 1990 Guest researcher at the Naturhistoriska Riksmuseet, Sektionen för Paleozoologi, Stockholm, then Post-Doc at the Zoological Institute in Köln: research project on comparative anatomy and embryology of fossil and Recent Dipnoi (lungfishes), funded by DFG (993/1-1)
- 1990 - 1992 Employment as a research assistant at the University of Tübingen, Institute of Systematic Zoology (Prof. W. Maier)
- 1992 - 1996 Appointed assistant professor (C1) at this Institute, University of Tübingen
- 1996 - to date Employment as researcher and curator at the Museum of Natural History of the Humboldt-University in Berlin, Institute of Systematic

- Zoology since September 1, 1996: Marine Invertebrates, since January 2000 in charge of Ichthyology (appointed lifetime state employee since Sept. 1997)
- 2006 - 2010 Deputy Head of Collection Department at MfN and responsible for construction and reerection of the new alcohol collection stores in the destroyed eastern wing of the museum building
- 2010 – 2013 Head of the Collection Department
- 2010 – to date Project coordinator of the second phase of reconstruction of the Museum building

Five most relevant Publications

Bartsch, P. 1993. Development of the snout in the Australian lungfish *Neoceratodus forsteri* (Krefft, 1870). - Acta Zoologica (Stockholm) 74: 15-29.

Bartsch, P. 1994. Development of the cranium of *Neoceratodus forsteri* , with a discussion of the suspensorium and the opercular apparatus in Dipnoi. - Zoomorphology 114: 1-31.

Bartsch, P. 1997. Aspects of craniogenesis and evolutionary biology in polypteriform fishes. - Neth. J. Zool. 47: 365-381.

Bartsch, P., Gemballa, S. & Piotrowski, T. 1997. The embryonic and larval development of *Polypterus senegalus* Cuvier, 1829: its staging with reference to external and skeletal features, behaviour and locomotory habits. - Acta Zoologica (Stockholm) 78: 309-328.

Diedhiou, S. & **Bartsch, P.** 2009. Staging of the early development of *Polypterus*. In: Development of Non-Teleost Fishes (Kunz-Ramsay Y.W., Luer, C.A. & Kapoor, B.G. eds), pp 104–169. Enfield, NH: Science Publishers, Inc.

Three relevant projects from the last three years

- Early ontogeny of the olfactory organ in basal osteognathostomes – in cooperation with Eckart Zeiske (University Hamburg) and Anne Hansen (University of Colorado); latest publication: Zeiske, E., Bartsch, P. & Hansen, A. 2009. Early ontogeny of the olfactory organ in a basal actinopterygian fish: *Polypterus*. - Brain, Behaviour and Evolution 73(4): 259-272. Funding by DFG.
- Reconstruction of the Eastern wing of the Museum Building; planning and coordination of user demands: Bartsch, P. & Neuhaus, B. 2011. Der Wiederaufbau des Berliner Museums für Naturkunde. – Museum Aktuell 179: 13-16.
- Coordination and Planning of the second phase of rebuilding and renovation of the MfN building: "Program of Demand" approved July 2010; Pre-Planning submitted November 2011

Teaching and Education

- Contribution to the Master Module/Course 'Anatomy and Paleobiology of Vertebrates'

Professional Roles, Membership Associations

- Co-Editor of Zoosystematics and Evolution
- Advisory Board of Acta Ichthyologia et Piscatoria
- Advisory Editor of Cybium
- Member of 'DZG, Deutsche Zoologische Gesellschaft'
- Member of 'Deutsche Paläontologische Gesellschaft'
- Member of 'GfBS, Gesellschaft für Biologische Systematik'
- Member of 'DEG Deutsche Elasmobranchier Gesellschaft'