

**PD Dr. rer. nat. habil. Steffen U. Pauls**

Senior Scientist and Group Leader “Aquatic Evolutionary Ecology”

Senckenberg Biodiversity and Climate Research Centre (BiK-F)

Senckenberganlage 25

D-60325 Frankfurt/Main, Germany

**Education**

- 2015 Umhabilitation in Zoology, Goethe Universität Frankfurt, Germany
- 2014 Habilitation in Zoology, Freie Universität Berlin, Germany.  
Thesis: „Comparative phylogeography of aquatic insects in Europe”  
Lecture: “Integrative Biodiversitätsforschung – Von Molekülen hin zu globalen Mustern”.
- 2004 Ph.D. in Zoology, University of Duisburg-Essen, Germany.  
Dissertation: “Phylogeny and Phylogeography of the Montane caddis fly *Drusus discolor* (Rambur, 1842) (Trichoptera: Limnephilidae, Drusinae).”  
graded "summa cum laude."
- 2001 Diploma (MS) in Ecology, University of Essen, Germany.  
Thesis: “Development of an assessment system for sandy streams in the lowlands North-Rhine-Westphalia in concordance with the EU Water Framework Directive.” graded “A+.”

**Research Interests**

- Molecular systematics, diversification and phylogeography of caddisflies
- Integrative taxonomy and biodiversity research
- Population genetics and evolutionary ecology of aquatic insects

**“Listenplätze” and Professorships offered**

- 2016 Professor for “Hydrobiology and Aquatic Ecosystem Management”, Universität für Bodenkultur Wien (offer declined)
- 2012 W3 Professor for “Entomology”, Martin Luther Universität, Halle/Saale (Listenplatz)
- 2010 W2 Professor for “Molecular Ecology”, J.W. Goethe Universität, Frankfurt am Main (Listenplatz)
- 2010 W1 Professor for “Systematics and Evolution”, J.W. Goethe Universität, Frankfurt am Main (Listenplatz)

## Professional Experience

01/2017 – present	Section Head, Entomology III, Senckenberg Research Institute and Natural History Museum
03/2016 – 09/2016	Research Sabbatical, UC Davis, USA
05/2015 – present	Privatdozent, Goethe Universität Frankfurt, FB Biowissenschaften
01/2015 – 12/2016	Senior Scientist and Group Leader “Aquatic Evolutionary Ecology”, Senckenberg Biodiversity and Climate Research Centre (BiK-F), Frankfurt/Main, Germany.
05/2014 – 12/2016	Privatdozent, Freie Universität Berlin, Institut für Biologie/Zoologie
09/2010 – 12/2014	Junior Group Leader “Aquatic Evolutionary Ecology”, Biodiversity and Climate Research Centre (BiK-F), Frankfurt/Main, Germany.
06/2008 – 07/2010	Entomology Graduate Faculty Affiliate Member, University of Minnesota.
06/2008 – 07/2010	Museum Associate Bell Museum of Natural History.
09/2007 – 07/2010	Research Associate University of Minnesota, Department of Entomology.
09/2007 – 08/2009	German Academy of Sciences Leopoldina Research Fellow (PostDoc) University of Minnesota, Department of Entomology. Host: Dr. R.W. Holzenthal. Evolution of Endemism in Biodiversity Hotspots: Speciation Processes and Phylogeography of Aquatic Insects in the Chilean Andes.
06/2006 – 08/2007	Associate Researcher (PostDoc) Senckenberg – Research Institute and Natural History Museum, Department of Limnology and Conservation. “Phylogeny of the Drusinae” and “Comparative phylogeography of montane aquatic insects”
04/2005 – 05/2006	Postdoctoral Fellow (German Academic Exchange Service – DAAD) The Field Museum, Department of Zoology, Chicago, USA. Host: Dr. J. Bates. Developing microsatellites to study genetic diversity, population differentiation, dispersal barriers and suture zones in the caddis fly <i>Drusus discolor</i> .
07/2005	Aquatic Ecology Instructor, Programme Biodiversité des Ecosystèmes Aquatiques et Terrestres dans le Rift Albertin (P-BEATRA), Dem. Rep. of Congo.
2001 – 2005	Research Assistant, Department of Limnology and Conservation, Senckenberg Research Institute, Germany. Advisor: Dr. P. Haase.
1999 – 2001	Undergraduate Research Assistant, Department of Hydrobiology, University of Duisburg-Essen, Institute of Ecology, Germany.
1997 – 1998	Undergraduate Teaching Assistant, University of Duisburg-Essen, Botanical Institute, Germany.

### ***Bibliometrics (see publication list below for details)***

- 68 SCI listed publications or papers “in press”
- ResearcherID C-2192-2011
- Google Citations Profile
- H-Index: 21 (Researcher ID); 24 (Google Citations)
- Total citations: 1253 (Researcher ID); 1931 (Google Citations)
- 30 non SCI-listed articles, book chapters, public interest articles, contributions to conference proceedings

### ***Third Party Funding – Overview***

- Research Grants: DFG (3 grants totaling €268097,-), FWF (2 grants totaling €72000,-)
- Personal Stipends: Leopoldina (€76000,-), DAAD (3 stipends totaling €45378,-)
- Student Stipends: BMBF IPSWaT (€67765,-)
- Other sources: 8 grants and awards totaling €69400,-
- **Total funding: €598640,-**

### ***Current Teaching***

- Praktikum „Gewässerökologie“, Goethe-Universität Frankfurt
- Vorlesung “Grundlagen der Biogeographie”, Goethe Universität Frankfurt
- Mastermodul „Integrative Taxonomie und Systematik“ Goethe Universität Frankfurt

### ***Editorial Experience***

- Since 2015: Co-Editor of **Arthropod Systematics and Phylogeny**
- Since 2012: Editorial board member of **Freshwater Biology**.
- 2010: Guest editor for a special series in the **Journal of the North American Benthological Society**: Monaghan M.T., Pauls S.U., Robinson C.T., Hughes, J.M. (eds) Evolutionary ecology, speciation, and molecular systematic in freshwater organisms.

### ***Referee for International Journals and Funding Agencies***

Aquatic Insects, Aquatic Sciences, Arthropod Systematics and Phylogeny, Biologia, Biological Journal of the Linnean Society, BMC Evolutionary Biology, Diversity, Ecography, Environmental Entomology, Environmental Management, Freshwater Biology, Freshwater Science, Global Change Biology, Hydrobiologia, Insects, Journal of Biogeography, Journal of the North American Benthological Society, Journal of the Entomological Research Society, Journal of Tropical Ecology, Limnologica, Marine and Freshwater Research, Methods in Ecology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Nature Climate Change, PLoS One, Zookeys, Zoosymposia, and Zootaxa

- National Science Foundation CAREER Awards
- National Science Foundation Division of Environmental Biology (DEB) Program

- Czech Science Foundation
- Deutsche Forschungsgemeinschaft (DFG) Sachbeihilfen
- Swiss National Science Foundation

### ***Field Work***

Australia, Austria, Bulgaria, Chile, Czech Republic, D.R. Congo, France, Germany, Italy, Nepal, Romania, Slovakia, Spain, Switzerland, Turkey

### ***Membership in Scientific Societies***

Deutsche Gesellschaft für Limnologie, Society of Freshwater Science, Society for the Study of Evolution, Gesellschaft für Biologische Systematik, Society of Systematic Biologists