

# Emanuel Heitlinger

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Born September, 12th 1980 in Schwäbisch Gmünd,  
Germany

## Education

Jun 2008 - Feb 2012 Doctoral studies, Karlsruhe Institute of Technology.

**Dissertation:** Divergence of an introduced population of the swimbladder-nematode *Anguillicola crassus* - a transcriptomic perspective.

**Supervisors:** Prof. Dr. Horst Taraschewski and Prof. Mark Blaxter.

Jun 2007 - Feb 2008 Work on diploma thesis, University of Karlsruhe, Zoological Institute, Department for Parasitology and Ecology.

**Thesis title:** Vergleichende licht- und elektronenmikroskopische Untersuchungen am Intestinaltrakt des invasiven Schwimmbblasennematoden *Anguillicola crassus* aus verschiedenen Aalarten.

2001 - 2007 Undergraduate studies in Biology, University of Karlsruhe.

**Main subject:** Zoology

**Subsidiary subjects:** Genetics, Botany

1991 - 2000 Secondary school, Gymnasium St.Paulusheim Bruchsal.

1987 - 1991 Primary school, Kraichtal Oberöwisheim.

## Employment

May 2014 - now Juniorprofessor, Humboldt University of Berlin, Institute for Biology, Department for Molecular Parasitology and Leibniz Institute for Zoo and Wildlife research.

March 2012 - May 2014 Postdoctoral researcher, Humboldt University of Berlin, Institute for Biology, Department for Molecular Parasitology.

Jun 2008- Jul 2011 Research assistant, Karlsruhe Institute of Technology, Zoological Institute, Department for Parasitology and Ecology.

## Fields of Research Interest

Ecology and evolution of host-parasite interactions, transcriptomics and genomics

## Research

### Peer Reviewed Publications

**Emanuel Heitlinger**, Simone Spork, Richard Lucius and Christoph Dieterich (2014) The genome of *Eimeria falciformis* - reduction and specialization in a single host apicomplexan parasite. BMC Genomics, under review.

Manuela Schmid, **Emanuel Heitlinger**, Simone Spork, Hans-Joachim Mollenkopf, Richard Lucius, and Nishith Gupta (2013) *Eimeria falciformis* infection of the mouse caecum identifies opposing roles of IFNÎ-g-regulated host pathways for the parasite development. Mucosal immunology, 25 December.

Urszula Weclawski, **Emanuel Heitlinger**, Tobias Baust, Bernhard Klar, Trevor Petney, Yu San Han and Horst Taraschewski (2013) Evolutionary divergence of the swim bladder nematode *Anguillicola crassus* after colonization of a novel host, *Anguilla anguilla*. BMC Evolutionary Biology, 13:78.

**Emanuel Heitlinger**, Stephen Bridgett, Anna Montazam, Horst Taraschewski and Mark L Blaxter (2013) The transcriptome of the invasive eel swimbladder nematode parasite *Anguillicola crassus*. BMC Genomics, 14:87.

Dominik R Laetsch, **Emanuel Heitlinger**, Horst Taraschewski, Steven A Nadler and Mark L Blaxter (2012) The phylogenetics of Anguillicolidae (Nematoda: Anguillicolidea), swimbladder parasites of eels. BMC Evolutionary Biology, 12:60.

**Emanuel Heitlinger**, Dominik R Laetsch, Urszula Weclawski, Yu-San Han and Horst Taraschewski (2009) Massive encapsulation of larval *Anguillicoloides crassus* in the intestinal wall of Japanese eels. Parasites & Vectors, 2:48.

## Conference Presentations

25th Biannual conference of the German society of parasitology (DGP), March 14-17 2012, Heidelberg, Germany. Oral presentation: “Divergence of an introduced population of *Anguillicola crassus* a transcriptomic perspective”.

3rd Status Symposium, Volkswagen Foundation Funding Initiative Evolutionary Biology, November 7-11 2011, Sylt, Germany. Oral presentation: “Divergence of an introduced parasite: a transcriptomic perspective on *Anguillicola crassus*”.

2nd Status Symposium, Volkswagen Foundation Funding Initiative Evolutionary Biology, May 9-12 2010, Frauenchiemsee, Germany. Oral presentation: “The transcriptome of *Anguillicoloides crassus* sampled by pyrosequencing”.

24th Biannual conference of the German society of parasitology (DGP), March 16-19 2010, Münster, Germany. Two oral presentations: “The transcriptome of *Anguillicoloides crassus* sampled by pyrosequencing” and “Massive encapsulation of larval *Anguillicoloides crassus* in the intestinal wall of the Japanese eel”.

Mind the gap: joining empirical and theoretical population genetics, October 2-3 2009, Freiburg, Germany. Oral presentation: “Divergence between European and Asian populations of the swimbladder nematode *Anguillicoloides crassus*”.

1st Status Symposium, Volkswagen Foundation Funding Initiative Evolutionary Biology, February 25-27 2009, Münster, Germany. Poster: “Divergence between East Asian and European populations of the swimbladder-nematode *Anguillicola crassus*”.

Xth European Multicolloquium of Parasitology - EMOP 10, August 24-28, 2008, Paris, France. Oral Presentation: “Divergence between East Asian and European populations of the swimbladder-nematode *Anguillicola crassus*”.

## Honors, Awards, & Fellowships

2008 Volkswagen Stiftung PhD Fellowship, Funding Initiative Evolutionary Biology, full funding of research position and research material (€131k)