Emanuel Heitlinger

Juniorprofessor

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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 Diploma thesis, University of Karlsruhe, Zoological Institute, Department for Parasitology and Ecology.

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

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

Main subject: Zoology with focus on parasitology

Subsidiary subjects: Genetics, Botany

Employment

May 2014–Present **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.

Research

Peer Reviewed Publications

Emanuel Heitlinger, Horst Taraschewski, Urszula Weclawski, Karim Gharbi and Mark Blaxter. (2014) Transcriptome analyses of *Anguillicola crassus* from native and novel hosts. PeerJ 2:e684.

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 15 (1): 696.

Urszula Weclawski, **Emanuel Heitlinger**, Tobias Baust, Bernhard Klar, Trevor Petney, Yu-San Han, and Horst Taraschewski (2014) Rapid Evolution of *Anguillicola crassus* in Europe: Species Diagnostic Traits Are Plastic and Evolutionarily Labile. Frontiers in Zoology 11 (1): 74.

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 IFNγ-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.

Invited presentations

NGS workshop and conference MouseGene 2014. November 2014, Nove Hrady, Czech Republic. Lecture: "Bioinformatic design of DNA capture baits for population genomics". Practical training course: "Bait design - extracting and screening regions from BLAST searches."

Honors, Awards, & Fellowships

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

2008 DFG Sachbeihilfe "Coevolution of house mice and intracellular parasites in a hybrid zone" (€240k)