



## Dr. Ekin Tilic

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### EDUCATION Rheinische Friedrich-Wilhelms-Universität Bonn, Germany

Dr. rer. nat. (Phd Equivalent), Zoology, 12/2015  
Thesis Title: Ultrastructure, Formation and Evolution of Chaetae in Annelids  
Advisor: Prof. Dr. Thomas Bartolomaeus

MSc., Organismic Evolutionary and Paleobiology, 09/2012  
Thesis Title: Histological Analysis of Cnidocysts in the Digestive Tracts of *Cratena peregrina* and *Flabellina affinis* (Aeolidioidea, Nudibranchia) and a Molecular Barcode Analysis of Selected *Flabellina* Species  
Advisor: Prof. Dr. Heike Wägele

BSc., Biology, 09/2010  
Thesis Title: Relation of Digestive Gland and Zooxanthellae in Dorsal Appendices of *Phyllodesmium* Species” -A Case Study Using Surface Measurements with the Programme Reconstruct™  
Advisor: Prof. Dr. Heike Wägele

### AWARDS & FUNDING

**2017 – DFG postdoctoral research fellowship** (Scripps Institution of Oceanography, UC San Diego) Research Topic: A comprehensive molecular phylogeny of Sabellidae (Annelida) using a targeted gene capture approach and implications for the evolution of life history strategies

**2016 Reinhard Rieger-Award in Zoomorphology** – for the Paper: Phylogenetic Significance of Chaetal Arrangement and Chaetogenesis in Maldanidae (Annelida). ZOOMORPHOLOGY 134: 383-401 (2015)

**2014 Short-Term Fellowship of DAAD** (German Academic Exchange Service) for Ph.D. research studies in Scripps Institution of Oceanography, UC San Diego

**2014 Poster Award** for “Chaetal type diversity increases during evolution of Eunicida (Annelida).” at the 22<sup>nd</sup> International Symposium Biodiversity and Evolutionary Biology in Dresden, Germany.

**other awards** **2017 1st Prize VBIO-Photography Competition**  
Fotowettbewerb „Impressionen aus den Biowissenschaften“

### TEACHING EXPERIENCE

January 2017 Practical Course on Electron Microscopy (OEP Free 3G, University of Bonn) – course instructor

**Thesis supervision** 2016 BSc.-Thesis by Benedikt Pauli “Topologie und Genese der Borsten bei *Eurythoe complanata* (Amphinomida, Annelida)”

2016 BSc.-Thesis by Julian Muller “Topologie und Genese der Borsten bei *Glycera gigantea* (Glyceridae) und *Nephtys hombergii* (Nephtyidae), (Annelida)”

2016 BSc.-Thesis by Tim Herkenrath “Topologie und Genese der Borsten bei *Platynereis* (Nereididae) und *Eulalia viridis* (Phyllodocidae), (Annelida)”

2016 BEd.-Thesis by Schabnam Sermelwall “Topologie und Genese der Borsten bei den Chrysopetalidae (Annelida)”

**Teaching assistant** 2013 – 2016 BP02: Morphology and Evolution of Metazoa  
BP15: Zoological Identification Exercises  
Biology for Geoscientists”



## PUBLICATIONS

Tilic, E., Pauli, B. and Bartolomaeus, T. (2017) Getting to the root of fireworms' stinging chaetae – chaetal arrangement and ultrastructure of *Eurythoe complanata* (Pallas, 1766) (Amphinomida). *Journal of Morphology* 278:865–876.

Tilic, E. and Bartolomaeus, T. (2016). Structure, function and cell dynamics during chaetogenesis of abdominal uncini in *Sabellaria alveolata* (Sabellariidae, Annelida). *Zoological Letters* 2:1.

Tilic, E., Bartolomaeus, T., and Rouse, G. (2016). Chaetal type diversity increases during evolution of Eunicida (Annelida). *Organisms Diversity & Evolution* 16(1): 105–119.

Tilic, E., von Döhren, J., Quast, B., Beckers, P. and Bartolomaeus, T. (2015). Phylogenetic significance of chaetal arrangement and chaetogenesis in Maldanidae (Annelida). *Zoomorphology* 134 (3): 383–401.

Tilic, E., Lehrke, J. and Bartolomaeus, T. (2015). Homology and evolution of the chaetae in Echiura (Annelida). *PLoS ONE* 10 (3): e0120002

Tilic, E., Hausen, H. and Bartolomaeus, T. (2014). Chaetal arrangement and chaetogenesis of hooded hooks in *Lumbrineris (Scoletoma) fragilis* and *Lumbrineris tetraura* (Eunicida, Annelida). *Invertebrate Biology* 133 (4): 354–370.

## CONFERENCE PARTICIPATION

Bartolomaeus, T. and Tilic, E. (2018). Significance of chaetae in the light of the new annelid phylogeny. Poster, 19th Annual Conference of GfBS in Vienna, Austria

Bartolomaeus, T. and Tilic, E. (2017) Segment-wise coding in annelids enhances resolution of morphology based phylogenies—a case study from Arenicolidae and Maldanidae (Annelida). Poster, 3rd BioSyst.EU meeting in Gothenburg, Sweden

Beckers, P. and Tilic, E (2017). Characters of the nervous system support sipunculid and amphinomid affinity. Poster, 110th annual meeting of the German Zoological Society in Bielefeld, Germany.

Tilic, E. and Beckers, P. (2016). Next-generation histology as a tool in Annelid morphology. Talk, 12th International Polychaete Conference in Cardiff UK.

Tilic, E., Pauli, B. and Bartolomaeus, T. (2016). Chaetal arrangement of the fireworm *Eurythoe complanata* (Amphinomida) (Pallas, 1766). Poster, 12th International Polychaete Conference in Cardiff UK.

Tilic, E. and Bartolomaeus, T. (2016). Revisiting the Homology of Annelid Hooks. Poster, 12th International Polychaete Conference in Cardiff UK.

Tilic, E. and Bartolomaeus, T. (2016). Another kind of annelid hook: on the fine structure of sipunculan introvert hooks. Poster, 17th Annual Conference of GfBS in Munich, Germany.

Tilic, E. and Bartolomaeus, T. (2014). Chaetal type diversity increases during evolution of Eunicida (Annelida). Talk, 3rd International Congress on Invertebrate Morphology in Berlin, Germany.

Bartolomaeus, T., Lehrke, J. and Tilic, E. (2014). Homology and evolution of the chaetae in Echiura. Poster, 22nd International Symposium Biodiversity and Evolutionary Biology in Dresden, Germany.

## FIELD EXPERIENCE

2012–2016	Brittany France	Station Biologique de Concarneau Station Biologique de Roscoff
April 2012	Banyuls-sur-Mer, France	
June 2011	Giglio, Italy	
Sept 2011	Banyuls-sur-Mer, France	
Oct 2010	Biologische Anstalt Helgoland -AWI	

## DIVING

NAUI - Advanced Diver	Scripps Oceanography - Scientific Diver
NAUI - Rescue Diver	NAUI - Nitrox Diver
PADI - Open Water Diver	PADI - Advanced Open Water Diver

## MEMBERSHIPS

International Polychaete Association  
International Society for Invertebrate Morphology  
German Society of Biological Systematics (GfBS)  
Verband Biologie, Biowissenschaften und Biomedizin—VBIO e.V.

## LANGUAGES

Turkish (native speaker)  
German (native speaker)  
English (near native, TOEFL iBT: 116, DAAD Language Assessment: CEFR Level C2)  
Spanish (intermediate, B1)