

Curriculum Vitae

Eveline T. Diepeveen

Personal Details

Name: Eveline Tamara Diepeveen
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Date of birth: June 1, 1982
Place of birth: Amsterdam, the Netherlands (NL)
Nationality: Dutch

Education

2009-2013 PhD student University of Basel (CH) PI: Walter Salzburger
“Evolutionary genetics of naturally and sexually selected traits in cichlid fishes”. Graduated 24-01-2013, *Magna cum laude*
2005-2008 Master of Science Biology, VU University (NL)
2002-2005 Bachelor of Science Biology, VU University (NL)
2000-2001 Propedeuse MBRT Hogeschool Haarlem (NL)
Profession education; Medical imaging & radiotherapy techniques
1994-2000 Higher general education*, Hervormd Lyceum West (NL)

Internships and theses

January-April 2008 Master thesis at Leiden University (NL)
‘Co-option in the evolution of novelties’. Dep. Evolutionary Biology. Supervisors: Dr. P. Beldade, Drs. S. Saenko and Prof. dr. N. M. v. Straalen.
January-June 2007 Master project at University of California, San Diego (USA)
*‘Adaptation at the DNA level: Nucleotide diversity in the pigmentation gene *Mc1r* in the Oldfield mouse (*Peromyscus polionotus*)’*. Dep. Ecology Behavior and Evolution. Supervisors: Dr. H. E. Hoekstra, Dr. C. C. Steiner and Dr. D. Roelofs.
March-August 2006 Master project at University of Utrecht (NL)
‘Anticipation on reward: a way to improve the welfare of pigs in husbandry systems’. Dep Animal, Science and Society. Supervisors: Dr. F. H. de Jonge, Drs. S. Dudink and Prof. Dr. J. Ellers.
March-June 2005 Bachelor thesis at National Museum of Natural History Naturalis
‘The phylogeny of placental mammals; the effects of molecular techniques’. Supervisors: Prof. Dr. E. Gittenberger and Dr. D. Uit de Weerd.

* Dutch VWO grade in Dutch, English, Mathematics A and B, Biology, Economics 2, Science and Physics

Talks and posters

2012

- Oral presentation during the Evolution meeting in Ottawa, CA: *'Why the Hivp1 paralogs evolved under strong positive selection in cichlid fishes'*
- Seminar Geomar, Helmholtz Centre for Ocean Research Kiel, D: *'Unraveling the genetic basis of naturally and sexually selected traits in cichlid fishes'*.

2011

- Research seminar Zoological Institute, University of Basel, CH: *'Unraveling the causes of selection pressure on Hivp1 cichlid fishes'*.
- Poster presentation during the Gordon Research Conferences on Ecological and Evolutionary Genomics, University of New England, Biddeford, USA: *'Unraveling the functions and evolutionary history of Hivp1 in Lake Tanganyikan cichlid fishes'*.
- Oral presentation during the Biology 2011 meeting, University of Zürich, CH: *'Two endothelin pathways evolved under purifying selection and are involved in the cichlid's key-innovations'*.

2010

- Research seminar Zoological Institute, University of Basel, CH: *'The endothelin family; candidate genes for naturally and sexually traits in cichlids'*.
- Poster presentation during the Evolutionary and ecological genomics of adaptation symposium, University of Fribourg, Ch: *'The effects of genome duplication on adaptive traits: endothelins and key innovations in cichlids'*.
- Oral presentation during the Cichlid Science 2010 Meeting, Basel, CH: *'The effects of genome duplication on adaptive traits; endothelins and key innovations in cichlids'*.
- Oral presentation during the European Meeting of PhD Students in Evolutionary Biology, Wierzba, Poland: *'The effects of genome duplication on the endothelin family members studied in cichlids'*.

Conferences participation and other activities

- 2012 Evolution meeting, Ottawa Convention Centre, Ottawa, CA
- Molecular Ecology Symposium, Westin Hotel, Ottawa, CA
- 2011 Gordon Research Conferences on Ecological and Evolutionary Genomics, University of New England, Biddeford, USA.
- Biology 2011 meeting, University of Zürich, CH.
- 2010 Evolutionary and ecological genomics of adaptation symposium, University of Fribourg, CH.
- Cichlid Science 2010 Meeting, Basel, CH.
- European Meeting of PhD Students in Evolutionary Biology, Wierzba, Poland.
- 2008 Assistant at the 13th NTV education day conference, Sanquin Blood Supply Foundation, Amsterdam, NL.
- 2004 Year representative of 3rd year biology students, VU University, Amsterdam, NL.

Workshops participation

- 2012 NGS data in ecology and evolution workshop, University of Ottawa, CA
2011 Next generation sequencing workshop, Vienna Graduate School of Population Genetics, Vetmeduni Vienna, Austria.
2010 UNIX Basics Workshop, University of Lausanne, CH.
Workshop on Molecular Evolution Europe, Český Krumlov, Czech Republic.

Professional experience

2008-2009

Lab assistant HLA-diagnostics at the Sanquin Blood Supply Foundation, NL.
Characterizing *HLA* genes of (human) patients with PCR-SSP and PCR-SSO.

Teaching

2011-2012

Co-supervising MSc-project 'The evolutionary history of the *dlx* gene family in East African cichlids' Fabienne Kim.

2010

Teaching assistant Blockkurs (course) Zoology and Evolution. Supervision of a 4-weeks undergraduate research project: '*The genetic basis of fleshy lips in Cichlids*'.

Review activities

BMC Evolutionary Biology.

Professional memberships

Member of the Swiss Zoological Society (SZS), European Society for Evolutionary Biology (ESEB) and Canadian Society for Ecology and Evolution (CSEE).

Lab skills

General molecular techniques (e.g. DNA and RNA extraction, PCR, gel electrophoresis, sequencing, gene cloning, qPCR, microscopy, basic microbiological techniques).

Computer program skills

Sequencher, Codoncode Aligner, ClustalW, PHASE, PAUP*, MrBayes, DnaSP, (j)Modeltest, PAML, Seaview and SPSS. RNA-seq data analyses with galaxy, FASTX, novocraft, Samtools and DeSeq.

Text manipulation, regular expressions, Unix Shell (also scripting), Python programming (beginner). Windows and Unix (Mac OS) operating systems.

Fieldwork experience

- 2011 Lake Tanganyika, Zambia (2,5 weeks). DNA, RNA tissue extractions in Tanganyikan cichlids, fishing with gill nets.
- 2009 Lake Apoyo and Xiloa, Nicaragua (3 weeks). DNA, RNA and several other tissue extractions in Nicaraguan cichlid species, fishing with gill nets.

Funding/grants

- Support grant for dissertation completion
- 2012 Freiwillige Akademische Gesellschaft Basel CHF10'000
Travel and accommodation grants for several meetings/workshops.
- 2012 Reisefonds University of Basel CHF 2'000
- 2011 Reisefonds University of Basel CHF 1'580
- 2010 Reisefonds University of Basel CHF 424
Conference funding University of Fribourg CHF 105
- Travel and accommodation grants to study abroad:
- 2007 Vu-fonds € 400
St. Fonds Dr. Christine Buisman € 250
St. Bekker-La Bastide-Fonds €1'000
St. Dr. Hendrik Muller's vaderlandsch fonds €2'000
St. fundatie vrijvrouwe van renswoude €2'000

Publications

- 3) Colombo, M.*, **Diepeveen, E.T.***, Muschick, M., Santos, E., Indermaur, A., Boileau, N., Barluenga, M. and Salzburger, W. (2013). The ecological and genetic basis of convergent thick-lipped phenotypes in cichlid fishes. *Molecular Ecology* 22: 670-684 *These authors contributed equally to this work.
- 2) **Diepeveen, E.T.** and Salzburger, W. (2012). Two decades of molecular ecology: where are we and where are we heading? *Molecular Ecology* 21: 5656-5659
- 1) **Diepeveen, E.T.** and Salzburger, W (2011). Molecular characterization of two endothelin pathways in East African cichlid fishes. *Journal of Molecular Evolution* 73: 355-368