

Curriculum Vitae

Personal Data

Name: Philine Gabriele Doris Feulner
Affiliations: Eawag
 ¹Swiss Federal Institute of Aquatic Science and Technology
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Education

07/2006 Dissertation in Evolutionary Biology (grade: summa cum laude)
2003 - 2006 PhD at the University of Potsdam
11/2002 Diploma in Biology (final grade: very good)
1996 - 2002 Graduate studies at the Christian-Albrechts-University, Kiel

Employment

Since 08/2014 Group leader (tenure track) Fish Genomics at Eawag, Swiss
 Federal Institute of Aquatic Science and Technology
01/2013 – 07/2014 Postdoctoral researcher at the Max Planck Institute for
 Evolutionary Biology, Department Evolutionary Ecology, Plön
01/2010 – 12/2012 Postdoctoral researcher at the Westfälische Wilhelms University,
 Münster
12/2007 - 11/2009 Postdoctoral researcher on a Marie Curie Transfer of Knowledge
 host fellowship (PI Jon Slate) at University of Sheffield
06/2006 - 11/2007 Postdoctoral researcher at University of Potsdam
01/2003 - 05/2006 PhD student at University of Potsdam

Grants

Since 09/2015 PI on SNSF grant: “Speciation Genomics of the Swiss Alpine
 Whitefish Radiation” (co-PI Ole Seehausen)
 327 808 CHF
Since 08/2015 Co-PI on LEAD agency grant (evaluated within the German
 Science Foundation Priority Program 1819): “Host virus
 coevolution - demography versus selection” (co-PI Lutz Becks,
 MPI Plön)
 193 876 CHF
03/2011 to 02/2013 PI on Marie Curie European Re-integration Grant (MC-ERG; call:
 FP7-PEOPLE-2010-RG; proposal n° 270891): “Structural
 Variation and Adaptation of the Stickleback Genome”
 30 000 €

List of publications

Google Scholar profile:

<https://scholar.google.ch/citations?user=fjfDDI8AAAAJ&hl=de&oi=ao>

Publications 22 (19 peer-reviewed)

Citations 1283

h-index 17

1. Peer-reviewed articles (original work)

Huang Y., Chain F.J.J., Panchal M., Eizaguirre C., Kalbe M., Lenz T.L., Samonte I.E., Stoll M., Bornberg-Bauer E., Reusch T.B.H., Milinski M., **Feulner P.G.D.** (2016)
Transcriptome profiling of immune tissues reveals habitat-specific gene expression between lake and river sticklebacks.
Molecular Ecology 25: 943–958

Lamanna F., Kirschbaum F., Ernst A.R.R., **Feulner P.G.D.**, Mamonekene V., Paul C., Tiedemann R. (2016)
Species delimitation and phylogenetic relationships in a genus of African weakly-electric fishes (Osteoglossiformes, Mormyridae, *Campylomormyrus*).
Molecular Phylogenetic and Evolution 101: 8-18.

Paul C., Mamonekene V., Vater M., **Feulner P.G.D.**, Engelmann J., Tiedemann R., Kirschbaum F. (2015)
Comparative histology of the adult electric organ among four species of the genus *Campylomormyrus* (Teleostei: Mormyridae).
Journal of Comparative Physiology A 201: 357–374.

Feulner P.G.D.*, Chain F.J.J.*, Panchal M. *, Huang Y., Eizaguirre C., Kalbe M., Lenz T.L., Samonte I.E., Stoll M., Bornberg-Bauer E., Reusch T.B.H., Milinski M. (2015)
Genomics of divergence along a continuum of parapatric population differentiation.
PLoS Genetics 11: e1004966.

Chain F.J.J. *, **Feulner P.G.D. ***, Panchal M.*, Eizaguirre C., Samonte I.E., Kalbe M., Lenz T.L., Stoll M., Bornberg-Bauer E., Milinski M., Reusch T.B.H. (2014)
Extensive copy-number variation of young genes across stickleback populations.
PLoS Genetics 10: e1004830.

Feulner P.G.D.*, Chain F.J.J.*, Panchal M.*, Eizaguirre C., Kalbe M., Lenz T.L., Mundry M., Samonte I.E., Stoll M., Milinski M., Reusch T.B.H., Bornberg-Bauer E. (2013)
Genome-wide patterns of standing genetic variation in a natural marine population of three-spined sticklebacks.
Molecular Ecology 22: 635-49.

Feulner P.G.D. *, Gratten J.*, Kijas J.W., Visscher P.M., Pemberton J.M., Slate J. (2013)
Introgression and the fate of domesticated genes in a wild mammal population.
Molecular Ecology 22: 4210-4221.

Schroeder J., Dugdale H.L., Radersma R., Hinsch M., Buehler D.M., Saul J., Porter L., Liker A., De Cauwer I., Johnson P.J., Santure A.W., Griffin A.S., Bolund E., Ross L., Webb T.J., **Feulner P.G.D.**, Winney I., Szulkin M., Komdeur J., Versteegh M.A., Hemelrijk C.K.,

Svensson E.I., Edwards H., Karlsson M., West S.A., Barrett E.L.B., Richardson D.S., van den Brink V., Wimpenny J.H., Ellwood S.A., Rees M., Matson K.D., Charmantier A., dos Remedios N., Schneider N.A., Teplitsky C., Laurance W.F., Butlin R.K., Horrocks N.P.C. (2013)

Fewer invited talks by women in evolutionary biology symposia.
Journal of Evolutionary Biology 26: 2063-2069.

Mundry M., Bornberg-Bauer E., Sammeth M., **Feulner P.G.D.** (2012)
Evaluating characteristics of *de novo* assembly software on 454 transcriptome data: a simulation approach.
PLoS ONE 7: e31410.

Feulner P.G.D., Plath M., Engelmann J., Kirschbaum F., Tiedemann R. (2009)
Electrifying love: electric fish use species-specific discharge for mate recognition.
Biology Letters 5: 225-228.

Skog A., Zachos F.E., Rueness E.K., **Feulner P.G.D.**, Mysterud A., Langvatn R., Lorenzini R., Hmwe S.S., Lehoczky I., Hartl G.B., Stenseth N.C., Jakobsen K.S. (2009)
Phylogeography of red deer (*Cervus elaphus*) in Europe.
Journal of Biogeography 36: 66-77.

Feulner P.G.D., Kirschbaum F., Tiedemann R. (2008)
Adaptive radiation in the Congo River: An ecological speciation scenario for African weakly electric fish (Teleostei; Mormyridae; *Campylomormyrus*).
Journal of Physiology - Paris 102: 340-346.

Tobler M., DeWitt T.J., Schlupp I., García de León F.J., Hermann R., **Feulner P.G.D.**, Tiedemann R., Plath M. (2008)
Toxic hydrogen sulfide and dark caves: phenotypic and genetic divergence across two abiotic environmental gradients in *Poecilia mexicana*.
Evolution 62: 2643-2659.

Feulner P.G.D., Kirschbaum F., Mamonekene V., Ketmaier V., Tiedemann R. (2007)
Adaptive radiation in African weakly electric fish (Teleostei: Mormyridae: *Campylomormyrus*): a combined molecular and morphological approach.
Journal of Evolutionary Biology 20: 403-414.

Feulner P.G.D., Kirschbaum F., Schugardt C., Ketmaier V., Tiedemann R. (2006)
Electrophysiological and molecular genetic evidence for sympatrically occurring cryptic species in African weakly electric fishes (Teleostei: Mormyridae: *Campylomormyrus*).
Molecular Phylogenetics and Evolution 39: 198-208.

Feulner P.G.D., Kirschbaum F., Tiedemann R. (2005)
Eighteen microsatellite loci for endemic African weakly electric fish (*Campylomormyrus*, Mormyridae) and their cross species applicability among related taxa.
Molecular Ecology Notes 5: 446-448.

Feulner, P.G.D., Bielfeldt W., Zachos F.E., Bradvarovic J., Eckert I., Hartl G.B. (2004)
Mitochondrial DNA and microsatellite analyses of the genetic status of the presumed subspecies *Cervus elaphus montanus* (Carpathian red deer).
Heredity 93: 299-306.

2. Review articles

Feulner P.G.D., De-Kayne R. (2017)

COMMENTARY: Genome evolution, structural rearrangements and speciation.
Journal of Evolutionary Biology 30: 1488-1490.

Stapley J.*, Reger J.*, **Feulner P.G.D.**, Smadja C., Galindo J., Ekblom R., Bennison C., Ball A.D., Beckerman A., Slate J. (2010)
Adaptation Genomics: the next generation.
Trends in Ecology and Evolution 25: 705-712.

Slate J., Santure A.W., **Feulner P.G.D.**, Brown E.A., Ball A.D., Johnston S.E., Gratten J. (2010)
Genome mapping in intensively studied wild vertebrate populations.
Trends in Genetics 26: 275-284.

3. Contributions to books

Tiedemann R., **Feulner P.G.D.**, Kirschbaum F. (2010)
Electric organ discharge divergence promotes ecological speciation in sympatrically occurring African weakly electric fish (*Campylomormyrus*).
Evolution in Action, Springer Verlag (p 307-321)

4. Other relevant publications

Chain F.J.J., **Feulner P.G.D.** (2014)
Ecological and evolutionary implications of genomic structural variations.
Frontiers in Genetics 5: 326.

Feulner P.G.D., Plath M., Engelmann J., Kirschbaum F., Tiedemann R. (2009)
Article Addendum - Magic trait Electric Organ Discharge (EOD): Dual function of electric signals promotes speciation in African weakly electric fish.
Communicative & Integrative Biology 2: issue 4.

* authors contributed equally