

Education and Work Experience

- 10/2013 – current Bioinformatician, Department of Evolutionary Genetics, Leibniz Institute for Zoo & Wildlife Research, Berlin
- 12/2010 – 09/2013 Bioinformatician, Business Unit Next Generation Sequencing, LGC Genomics GmbH, Berlin
- 10/2008 – 01/2011 Graduate studies, University of Potsdam, Germany; degree: MSc in Bioinformatics; co-advisors: Dr. Joachim Selbig, Dr. Dirk Walther; thesis: [„Comparative analysis of miRNAs and their targets across four plant species“](#) using Perl and a small MySQL database (carried out at Max Planck Institute of Molecular Plant Physiology, Bioinformatics Group)
- 04/2010 – 11/2010 student research assistant, Bioinformatics Group, Max Planck Institute of Molecular Plant Physiology, Potsdam-Golm
- 10/2009 – 03/2010 student research assistant, Helmholtz-Zentrum Berlin für Materialien und Energie (HZB)
- 10/2008 – 09/2009 employee, HZB, task: development and programming of a new system control for the plasma-cvd-laboratory using LabVIEW (graphical programming platform)
- 10/2005 – 09/2008 Graduate studies, Berlin School of Economics, Faculty of Company-Linked Programmes, Germany; company: HZB; degree: BSc in Computer Science; co-advisors: Olaf-Peter Sauer, Dr.-Ing. Michael Greiff; thesis: „Entwicklung eines [Anwendungs-Prototypen](#) für die Unterstützung von mikroskopischen Punktzählungen durch Spracherkennung“ using Java (carried out at Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences in collaboration with Museum für Naturkunde in Berlin)

Publication

Peer reviewed

Weyrich A, Yasar S, **Lenz D**, Fickel J (2020): Tissue-specific epigenetic inheritance after paternal heat exposure in male wild guinea pigs. MAMM GENOME. [doi:10.1007/s00335-020-09832-6](https://doi.org/10.1007/s00335-020-09832-6)

Weyrich A, **Lenz D**, Fickel J (2019): Environmental change-dependent inherited epigenetic response. GENES 10, 4. [doi:10.3390/genes10010004](https://doi.org/10.3390/genes10010004)

Weyrich A, Jeschek M, Schrapers KT, **Lenz D**, Chung H, Rübensam K, Yasar S, Schneemann M, Ortman S, Jewgenow K, Fickel J (2018): Diet changes alter paternally inherited epigenetic pattern in male Wild guinea pigs. ENVIRON EPIGENET 4, dvy011. [doi:10.1093/eep/dvy011](https://doi.org/10.1093/eep/dvy011)

Martins RF, Schmidt A, **Lenz D**, Wilting A, Fickel J (2018): Human-mediated introduction of introgressed deer across Wallace's line: Historical biogeography of *Rusa unicolor* and *R. timorensis*. ECOL EVOL 8, 1465-1479. [doi:10.1002/ece3.3754](https://doi.org/10.1002/ece3.3754)

Lazarus DB, Renaudie J, **Lenz D**, Diver P, Klump J (2018): Raritas: A program for counting high diversity categorical data with highly unequal abundances. PEERJ 6, e5453. [doi:10.7717/peerj.5453](https://doi.org/10.7717/peerj.5453)

Förster DW, Bull JK, **Lenz D**, Autenrieth M, Paijmans LAJ, Kraus RHS, Nowak C, Bayerl H, Kuehn R, Saveljev AP, Sindičić M, Hofreiter M, Schmidt K, Fickel J (2018): Targeted resequencing of coding DNA sequences for SNP discovery in nonmodel species. MOL ECOL RESOUR 18, 1356-1373. [doi:10.1111/1755-0998.12924](https://doi.org/10.1111/1755-0998.12924)

Patel RP, Wutke S, **Lenz D**, Mukherjee S, Ramakrishnan U, Veron G, Fickel J, Wilting A, Förster DW (2017): Genetic structure and phylogeography of the leopard cat (*Prionailurus bengalensis*) inferred from mitochondrial genomes. J HERED 108, 349-360. [doi:10.1093/jhered/esx017](https://doi.org/10.1093/jhered/esx017)

Patel RP, **Lenz D**, Kitchener AC, Fickel J, Förster DW, Wilting A (2017): Threatened but understudied: supporting conservation by understanding the genetic structure of the flat-headed cat. CONSERV GENET 18, 1423-1433. [doi:10.1007/s10592-017-0990-2](https://doi.org/10.1007/s10592-017-0990-2)

Mohd Salleh F, Ramos-Madriral J, Peñaloza F, Liu S, Mikkel-Holger SS, Patel RP, Martins R, **Lenz D**, Fickel J, Roos C, Shamsir MS, Azman MS, Burton KL, Stephen JR, Wilting A, Gilbert MTP (2017): An expanded mammal mitogenome dataset from Southeast Asia. GIGASCIENCE 6, 1-8. [doi:10.1093/gigascience/gix053](https://doi.org/10.1093/gigascience/gix053)

Martins RF, Fickel J, Le M, Nguyen TV, Nguyen HM, Timmins R, Gan HM, Rovie-Ryan JJ, **Lenz D**, Förster DW, Wilting A (2017): Phylogeography of red muntjacs reveals three distinct mitochondrial lineages. BMC EVOL BIOL 17, 34. [doi:10.1186/s12862-017-0888-0](https://doi.org/10.1186/s12862-017-0888-0)

Weyrich A, **Lenz D**, Jeschek M, Chung TH, Rübensam K, Göritz F, Jewgenow K, Fickel J (2016): Paternal intergenerational epigenetic response to heat exposure in male wild guinea pigs. *MOL ECOL* 25, 1729-1740. [doi:10.1111/mec.13494](https://doi.org/10.1111/mec.13494)

Slater GJ, Cui P, Forasiepi AM, **Lenz D**, Tsangaras K, Voirin B, de Moraes N, MacPhee RD, Greenwood AD (2016): Evolutionary relationships among extinct and extant sloths: the evidence of mitogenomes and retroviruses. *GENOME BIOL EVOL* 8, 607-621. [doi:10.1093/gbe/evw023](https://doi.org/10.1093/gbe/evw023)

Patel RP, Förster DW, Kitchener AC, Rayan MD, Mohamed SW, Werner L, **Lenz D**, Pfestorf H, Kramer-Schadt S, Radchuk V, Fickel J, Wilting A (2016): Two species of Southeast Asian cats in the genus *Catopuma* with diverging histories: An island endemic forest specialist and a widespread habitat generalist. *R SOC OPEN SCI* 3, 160350. [doi:10.1098/rsos.160350](https://doi.org/10.1098/rsos.160350)

Cui P, Löber U, Alquezar-Planas DE, Ishida Y, Courtiol A, Timms P, Johnson RN, **Lenz D**, Helgen KM, Roca AL, Hartman S, Greenwood AD (2016): Comprehensive profiling of retroviral integration sites using target enrichment methods from historical koala samples without an assembled reference genome. *PEERJ* 4, 1847. [doi:10.7717/peerj.1847](https://doi.org/10.7717/peerj.1847)

Lenz D, May P, Walther D (2011): Comparative analysis of miRNAs and their targets across four plant species. *BMC RES NOTES* 2011;4:483. [doi:10.1186/1756-0500-4-483](https://doi.org/10.1186/1756-0500-4-483)