

Curriculum vitae

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EDUCATION

2020	Habilitation - Parasitology
2012	PhD graduation at the University of Vienna, Austria
2008 – 2012	PhD thesis at the Department of Zoology (University of Vienna) and the Institute of Specific Prophylaxis and Tropical Medicine (Med. Uni. Vienna). Title: "Prevalence and phylogeny of <i>Plasmodium ovale</i> and <i>P. malariae</i> in Bangladesh"
2005 – 2007	M.Sc. thesis at the Department of Medical Parasitology (Clinical Institute of Hygiene and Medical Microbiology), Med. Uni. Vienna, Austria.
2004 – 2007	Study of Zoology at the University of Vienna, Austria
2004 – 2012	Studium Irregulare in Zooparasitology at the University of Vienna, Austria
1999 – 2007	Study of Biology at the University of Vienna, Austria

PROFESSIONAL EXPERIENCE (FULL TIME SINCE DECEMBER 2013)

2014 – present	Group Leader: Vectors and Vector-Borne Diseases - Institute of Parasitology, University of Veterinary Medicine Vienna, Austria
2014 – present	Lecturer: Biology of Parasites for Biomedical students (BSc); Parasitological Course for Veterinary students (University of Veterinary Medicine Vienna, Austria) and several other courses
2012 Sep. – present	PostDoc: Institute of Parasitology, University of Veterinary Medicine Vienna, Austria

RESEARCH INTERESTS

Vectors and Vector-Borne Pathogens, Parasitology, Mosquitoes, filarioid helminths, Malaria, global change biology, neglected and emerging diseases.

SELECTED ACADEMIC PUBLICATIONS

1. Bakran-Lebl, K, Zittra, C, Harl, J, Shahi-Barogh, B, Grätzl, A, Ebmer, D, Schaffner, F, **Fuehrer, HP**: Arrival of the Asian tiger mosquito, *Aedes albopictus* (Skuse, 1895) in Vienna, Austria, and initial monitoring activities. *Transbound Emerg Dis.* 2021, 2021 68 (6) 3145-3150. DOI: 10.1111/tbed.14169
2. **Fuehrer HP**, Schoener E, Weiler S, Barogh BS, Zittra C, Walder G. Monitoring of alien mosquitoes in Western Austria (Tyrol, Austria, 2018). **PLoS Negl Trop Dis.** 2020 Jun 23;14(6):e0008433. doi: 10.1371/journal.pntd.0008433. PMID: 32574163; PMCID: PMC7337398.
3. Schoener E, Zittra C, Weiss S, Walder G, Barogh BS, Weiler S, **Fuehrer HP**. Monitoring of alien mosquitoes of the genus *Aedes* (Diptera: Culicidae) in Austria. **Parasitol Res.** 2019 May;118(5):1633-1638. doi: 10.1007/s00436-019-06287-w. Epub 2019 Mar 16. PMID: 30877440; PMCID: PMC6478629.
4. Zittra C, Flechl E, Kothmayer M, Vitecek S, Rossiter H, Zechmeister T, **Fuehrer HP**. Ecological characterization and molecular differentiation of *Culex pipiens* complex taxa and *Culex torrentium* in eastern Austria. **Parasit Vectors.** 2016, 9:197. doi: 10.1186/s13071-016-1495-4. PMID: 27067139
5. Zittra C, Vitecek S, Obwaller AG, Rossiter H, Eigner B, Zechmeister T, Waringer J, **Fuehrer HP**. Landscape structure affects distribution of potential disease vectors (Diptera: Culicidae). **Parasit Vectors.** 2017; 10(1):205. doi: 10.1186/s13071-017-2140-6. PMID: 28441957
6. Thannesberger J, Rascovan N, Eisenmann A, Klymiuk I, Zittra C, **Fuehrer HP**, Scantlebury-Manning T, Gittens-St Hilaire M, Austin S, Landis RC, Steininger C. Viral metagenomics reveals the presence of novel Zika virus variants in *Aedes* mosquitoes from Barbados. **Parasit Vectors.** 2021 Jun 29;14(1):343. doi: 10.1186/s13071-021-04840-0. PMID: 34187544; PMCID: PMC8244189.
7. Unterköfler MS, Dengg P, Niederbacher M, Lindorfer S, Eberle A, Huck A, Staufer K, Zittra C, Wortha LN, Hodžić A, Duscher GG, Harl J, Schlüsslmayr G, Bezerra-Santos MA, Otranto D, Silbermayr K, **Fuehrer HP**.: Occurrence of *Thelazia callipaeda* and its vector *Phortica variegata* in Austria and South Tyrol, Italy, and a global comparison by phylogenetic network analysis. *Parasit Vectors.* 2023; 16(1):294. DOI: 10.1186/s13071-023-05913-y

8. Mapua, MI*, **Fuehrer, HP***, Petrželková, KJ, Todd, A, Noedl, H, Qablan, MA, Modrý, D: *Plasmodium ovale wallikeri* in Western Lowland Gorillas and Humans, Central African Republic. **Emerg Infect Dis.** 2018 24(8): 1581-1583. DOI: 10.3201/eid2408.180010
9. Ménard D, Khim N, Beghain J, Adegnikaa AA, Shafiul-Alam M, Amodu O, Rahim-Awab G, Barnadas C, Berry A, Boum Y, Bustos MD, Cao J, Chen JH, Collet L, Cui L, Thakur GD, Dieye A, Djallé D, Dorkenoo MA, Eboumbou-Moukoko CE, Espino FE, Fandeur T, Ferreira-da-Cruz MF, Fola AA, **Fuehrer HP**, Hassan AM, Herrera S, Hongvanthong B, Houzé S, Ibrahim ML, Jahirul-Karim M, Jiang L, Kano S, Ali-Khan W, Khanthavong M, Kremsner PG, Lacerda M, Leang R, Leelawong M, Li M, Lin K, Mazarati JB, Ménard S, Morlais I, Muhindo-Mavoko H, Musset L, Na-Bangchang K, Nambozi M, Niaré K, Noedl H, Ouédraogo JB, Pillai DR, Pradines B, Quang-Phuc B, Ramharter M, Randrianarivelojosia M, Sattabongkot J, Sheikh-Omar A, Silué KD, Sirima SB, Sutherland C, Syafruddin D, Tahar R, Tang LH, Touré OA, Tshibangu-wa-Tshibangu P, Vigan-Womas I, Warsame M, Wini L, Zakeri S, Kim S, Eam R, Berne L, Khean C, Chy S, Ken M, Loch K, Canier L, Duru V, Legrand E, Barale JC, Stokes B, Straimer J, Witkowski B, Fidock DA, Rogier C, Ringwald P, Arieu F, Mercereau-Puijalon O; KARMA Consortium. A Worldwide Map of *Plasmodium falciparum* K13-Propeller Polymorphisms. **N Engl J Med.** 2016; 374(25):2453-64. doi: 10.1056/NEJMoa1513137. PMID: 27332904
10. Reichl J, Proseger C, Petutschnig S, Unterköfler MS, Bakran-Lebl K, Markowicz M, Indra A, **Fuehrer HP**. Comparison of a multiplex PCR with DNA barcoding for identification of container breeding mosquito species. *Parasit Vectors.* 2024 17(1):171. doi: 10.1186/s13071-024-06255-z. PMID: 38566239; PMCID: PMC10985852.

ADDITIONAL RESEARCH ACHIEVEMENTS

AWARDS

Most successful Junior Scientist (non-clinical; < 35years) of the University of Veterinary Medicine Vienna, Category: Third-Party Funding

GRANTS (selected)

ERA-Net - Biodiversa2 (2013-2017): Global Change and invasive mosquitoes as infectious disease risks in Europe - <https://www.fwf.ac.at/forschungsradar/10.55776/I1437>

HRSM – ATIV-BioDat – Vector Database (2023-ongoing)

FWF/NCN - Genetic Diversity of *Dirofilaria repens* and *D. immitis* (2025-ongoing)

ACRP - The impact of Climate Change on Arthropod vectors and selected parasites in Alpine Pastures (2024-ongoing)