

HENRIQUE G. LEITÃO

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CURRENT POSITION

PhD Jan. 2021 – *present* University of Antwerp
Nov. 2021 – *present* FWO PhD fellow

Supervisor: Prof Hannes Svardal

Project: *The genomic and ecological basis of rapid change in a functionally significant trait: osteoderm evolution in a girdled lizard*

EDUCATION

MSci **Zoology**, University of Glasgow, *First Class Honours*, 2020.

SUBMITTED MANUSCRIPTS

1. Marques JP et al. (2023). 'Building a Portuguese Coalition for Biodiversity Genomics'. *PCI Genomics*. *In review*.
2. Recknagel H, Leitão HG, Elmer KR. (2023). 'Genetic basis and expression of ventral colour in polymorphic common lizards'. *Molecular Ecology*. *In review*.

PUBLICATIONS

1. Leitão HG, Diedericks G, Broeckhoven C, Baeckens S, Svardal H. (2023). 'Chromosome-level genome assembly of the Cape cliff lizard (*Hemicordylus capensis*)'. *Genome Biology and Evolution*, 15(2). <https://doi.org/10.1093/gbe/evad001>
2. Brealey JC, Leitão HG, Hofstede T, Kalthoff DC, Guschanski K. (2021). 'The oral microbiota of wild bears in Sweden reflects the history of antibiotic use by humans'. *Current Biology*, 31(20): 4650-4658.e6. <https://doi.org/10.1016/j.cub.2021.08.010>
3. Brealey JC, Leitão HG, van der Valk T, Xu W, Bougiouri K, Dalén L, Guschanski K. (2020). 'Dental calculus as a tool to study the evolution of the mammalian oral microbiome'. *Molecular Biology and Evolution*. 37(10): 3003–3022. <https://doi.org/10.1093/molbev/msaa135>
4. Recknagel H, Layton M, Carey R, Leitão H, Sutherland M, Elmer KR. (2018). 'Melanism in common lizards (Squamata: Lacertidae: *Zootoca vivipara*): new evidence for a rare but widespread ancestral polymorphism'. *Herpetology Notes*. 11: 607–612. <https://www.biotaxa.org/hn/article/view/33903>

CONFERENCE PRESENTATIONS

1. Leitão HG. (2022). 'Introduction to the ERGA pilot project' *Biodiversity Genomics 2022*, online. (*talk*)
2. Leitão HG, Diedericks G, Broeckhoven C, Baeckens S, Van Damme R, Svardal H. (2022). 'Chromosome-level assembly of the Cape cliff lizard (*Hemicordylus capensis*)'. *Biodiversity Genomics 2022*, online. (*poster and lightning talk*)
3. Leitão HG, Recknagel H, Elmer KR. (2021). 'Genetic mechanisms of colour divergence in common lizards'. *Evolution 2021*, online. (*talk*)
4. Leitão HG, Brealey JC, Guschanski K. (2019). 'Recovering an authentic oral microbiome signature and host genetic diversity from historical dental calculus of non-human mammals'. *Society for Molecular Biology and Evolution (SMBE) Meeting 2019*, Manchester, UK. (*poster*)
5. Leitão HG, Brealey JC, Guschanski K. (2019). 'How to identify 'true' oral taxa in dental calculus?'. *Revolution 2019* (Animal Ecology, Uppsala University internal symposium), Uppsala, Sweden. (*poster*)

WORKING GROUPS

ERGA European Reference Genome Atlas 2021 - 2023

Duties: UA Svardal Lab representative. Genome assembly, HMW DNA extraction, RNA extraction, Hi-C and RNA-seq lib prep, across 18 species for the ERGA pilot project.

GENOME ASSEMBLIES

<i>Hemicordylus capensis</i>	<i>completed</i>
<i>Tripterygion tripteronotum</i>	<i>completed</i>
<i>Mullus barbatus</i>	<i>completed</i>
<i>Knipowitschia panizzae</i>	<i>completed</i>

MANUSCRIPT REVIEWS

Molecular Ecology 1x (with H. Svardal)

TEACHING ACTIVITIES

Guest Lecturer

2022 Herpetology - 'Evolutionary genomics of amphibians and reptiles'
(UAntwerp, 2001WETHER)

Teaching Assistant

2023 Omics Techniques (UAntwerp, 2201WETOMT)
2022 Laboratory Skills (UAntwerp, 2201WETLSK)
2022 Island Biology (UAntwerp, 2001WETEIL)

FELLOWSHIPS & AWARDS

2021	FWO PhD Fellowship	~115,000€
2019	Undergraduate Travel and Mentoring Award SMBE19	\$1500
2018	Erasmus+ Traineeship Grant	5640€
2016	Dr Victor Lim Travel Scholarship	£500

COURSE CERTIFICATES

2021 Genome Assembly using Oxford Nanopore Sequencing, Physalia-courses
2021 Assembly and Annotation of Genomes, Physalia-courses
2020 Python for Genomic Data Science, Coursera
2020 Introduction to Genomic Technologies, Coursera