## JAKE LEYHR - CV

Email: jake.leyhr@ebc.uu.se Website: jakeleyhr.github.io

**Twitter:** @JakeLeyhr **ORCID:** 0000-0003-1815-7818

### Education

Uppsala University 2023

PhD, Evolutionary Developmental Biology

Thesis: "Musculoskeletal Development in Jawed Vertebrates: Gene Function, Cis-

Regulation, and 3D Phenotypes in Zebrafish"

Uppsala University 2018

MSc, Biology (Evolutionary Biology)

Thesis: "Characterization of Transcription Factor Regulation During the Development of

Zebrafish Craniofacial Structures"

University of Exeter 2016

BSc (Hons), 2:1, Biological Sciences

Thesis: "Development of a Cell-Free Alkane Biosensor"

#### **Publications**

- **Leyhr, J.**, Sanchez, S., Dollman, KN., Tafforeau, P., Haitina, T. (**2023**). Enhanced contrast synchrotron X-ray microtomography for describing skeleton-associated soft tissue defects in zebrafish mutants. *Frontiers in Endocrinology*, 14:1108916, doi: 10.3389/fendo.2023.1108916
- **Leyhr, J.\***, Waldmann, L.\*, Filipek-Górniok, B., Zhang, H., Allalou, A., Haitina, T. (**2022**). A novel cis-regulatory element drives early expression of Nkx3.2 in the gnathostome primary jaw joint. *eLife*, doi: 10.7554/eLife.75749
- Waldmann, L.\*, **Leyhr, J.\***, Zhang, H., Allalou, A., Öhman-Mägi, C., Haitina, T. (**2022**). The Role of Gdf5 in the Development of the Zebrafish Fin Endoskeleton. *Developmental Dynamics*, 251(9), p1535-1549, doi: 10.1002/dvdy.399 (**Cover feature**)
- Waldmann, L.\*, **Leyhr, J.**\*, Zhang, H., Öhman-Mägi, C., Allalou, A., Haitina, T. (**2021**). The Broad Role of Nkx3.2 in the Development of the Zebrafish Axial Skeleton. *PLoS ONE*, 16(8), e0255953, doi: 10.1371/journal.pone.0255953
- Janssen, R., Andersson, E., Betnér, E., Bijl, S., Fowler, W., Höök, L., Leyhr, J., Landström, E., Mannelqvist, A., Panara, V., Smith, K., Tiemann, S. (2018). Embryonic expression patterns and phylogenetic analysis of panarthropod sox genes: Insight into nervous system development, segmentation and gonadogenesis. *BMC Evolutionary Biology*, 18(88), doi: 10.1186/s12862-018-1196-z

## **Conference Presentations**

- **Leyhr, J.**, Leflaëc, E., Debiais-Thibaud, M., Bird, NC., Dollman, K., Tafforeau, P., Sanchez, S., Haitina, T. DICE-PPC-SRµCT for describing anatomy, mutant phenotypes, and tissue organisation in three dimensions at near-histological resolution. Poster presentation delivered at the 82<sup>nd</sup> Annual Meeting of the Society for Developmental Biology (Chicago, USA July **2023**).
- Leyhr, J., Haitina, T., Dearden, R., Johanson, Z., Debiais-Thibaud, M., Tafforeau, P., Dollman, K., Marcellini, S., Boisvert, C., Clarac, F., Qu, Q., Bijl, S., Stundl, J., Soukup, V., Robertson, B., Grillner, S., Wallén-Mackenzie, Å., Smith, MM., Brazeau, M., Sanchez, S. A 3D Histological Survey of Vertebrate Jaw Cartilage with Implications for Chondrichthyan Skeletal Evolution. Oral

<sup>\*</sup> Equal contribution.

presentation delivered at the  $16^{th}$  International Symposium on Early and Lower Vertebrates (Valencia, Spain - June **2022**), and the  $6^{th}$  International Symposium on Palaeohistology (Online - March **2022**).

- **Leyhr, J.**, Leurs, N., Debiais-Thibaud, M., Haitina, T. Functional divergence of a novel conserved cis-regulatory element of Mohawk homeobox transcription factor during evolution of vertebrates. Poster presentation delivered at the 8<sup>th</sup> Meeting of the European Society for Evolutionary Developmental Biology (Naples, Italy June **2022**).
- **Leyhr, J.**, Haitina, T. Evolutionary conservation of cis-regulatory elements of craniofacial tendons and ligaments in Gnathostomes. Oral presentation delivered at the 15<sup>th</sup> International Symposium on Early and Lower Vertebrates (Quijing, China August **2019**).
- Haitina, T., Waldmann, L., Leyhr, J. Identification of the evolutionary conserved regulatory element controlling the primary jaw joint formation in zebrafish. Poster presentation delivered at the 2<sup>nd</sup> Joint Congress on Evolutionary Biology (Montpellier, France - August 2018)
- **Leyhr, J.**, Waldmann, L., Haitina, T. Using tissue-specific cell ablation to study the regeneration of the zebrafish jaw joint. Poster presentation delivered at the 7th Meeting of the European Society for Evolutionary Development Biology (Galway, Ireland June **2018**)

### Grants and Awards

Society for Developmental Biology Trainee Travel Assistance Grant  Awarded for travel to attend the 82 <sup>nd</sup> Annual Meeting of the Society for Developmental Biology (Chicago, USA) – 500 USD  Swedish Developmental Biology Organisation Travel Grant  Awarded for travel to attend the "Embryology: Concepts and Techniques in Modern Developmental Biology" advanced research training course at the Marine Biological Laboratory (Woods Hole, USA) – 5,000 SEK  European Synchrotron Radiation Facility Beamtime  Award LS-3021 (highlighted proposal) – "Evolution of the shark skeleton". Co-proposed with Dr. Sophie Sanchez, Dr. Tatjana Haitina, Dr. Zerina Johanson, Dr. Moya Meredith-Smith, Dr. Richard Dearden, Dr. Melanie Debiais-Thibaud, Dr. Sylvain Marcellini, and Dr. Qingming Qu – 33,000 USD (equivalent)  Helge Ax:son Johnsons Foundation Grant  "RNA sequencing analysis of the developing zebrafish pectoral fin" – 40,000 SEK  Anna Maria Lundin Foundation Travel Grant  Awarded for travel and accommodation to present at the 8th European Society for Evolutionary Developmental Biology conference (Naples, Italy) – 12,232 SEK  Supervision  Master's student – Elsa Leflaëc – Diversity of the cartilage of vertebrates. A study of the Meckel's cartilage in chondrichthyans and osteichthyans, Master's thesis project	Yokogawa Spinning Disk Imaging Contest	2023
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gnathostomes, Origin and Evolution of Vertebrates Course Research Project	gnathostomes, Origin and Evolution of Vertebrates Course Research Project	
Bachelor's student - Branco Vanhaverbeke - A potential nkx3.2 enhancer in zebrafish: <b>2020</b>	Bachelor's student - Branco Vanhaverbeke - A potential nkx3.2 enhancer in zebrafish:	2020
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## **Teaching**

#### **Uppsala University (Master's level courses)**

Teaching Assistant, Evolution and Development (1BG397)	2017 - 2023
Teaching Assistant, Developmental Biology including the Development of the	2017 - 2023
Nervous System (1BG510)	
Teaching Assistant, Functional Genomics (1BG322)	2020 - 2021
Teaching Assistant, <i>Toxicology</i> (1BG209)	2019

## **Select Courses**

MBL Embryology: Concepts and Techniques in Modern Developmental Biology	2023
EMBO Practical Course 3D Developmental Imaging	2022
Digital Image Analysis for Scientific Applications - focus MAX IV	2022
Laboratory Animal Science for Researchers - Zebrafish	2020

### **Technical Skills**

- Synteny and genomic conservation analysis
- CRISPR/Cas9 genome editing
- Tol2 transgenesis
- Confocal microscopy
- Skeletal staining
- 3D segmentation in VGStudio MAX

- Image analysis in ImageJ
- Adobe Illustrator
- R, RMarkdown
- LaTeX
- Git, GitHub
- 3D printing

### Referees

#### Dr. Tatjana Haitina

Associate Professor Department of Organismal Biology Uppsala University tatjana.haitina@ebc.uu.se

# Dr. Sophie Sanchez

Senior Lecturer Department of Organismal Biology Uppsala University sophie.sanchez@ebc.uu.se

#### **Dr. Melanie Debiais-Thibaud**

Professor Institut des Sciences de l'Evolution de Montpellier, ISEM Université de Montpellier melanie.debiais-thibaud@umontpellier.fr