



Postdoctoral Researcher in Biomedical Research 100%

Introduction:

The institute of Anatomy combines modern biomedical research with training the next generation of medical professionals. As a postdoctoral researcher, you will join a team focused on using amphibian models (*Xenopus tropicalis* and *laevis*) to explore the molecular mechanisms of inherited diseases, a dynamic field, where your contribution can make a real difference.

We recently pioneered new tools for targeted genomic integration to generate custom transgenic lines and endogenously tag proteins of interest (<u>Naert, et al., BioRxiv, 2024</u>). We will employ these tools in combination with advanced imaging techniques and analysis tools (<u>Naert, et al., Development, 2021</u>) to explore the *in vivo* functions of proteins related to congenital diseases, including genetic kidney diseases and ciliopathies.

Your responsibilities

Your main objective will be to conduct innovative research into the molecular mechanisms of genetic diseases employing novel models and genome engineering in *Xenopus*. You will use key technologies, such as light-sheet imaging, live imaging, automated image analysis, CRISPR knockout or integration in *Xenopus* embryos. You are welcome to contribute your own ideas and actively shape the project.

You will work in collaboration with PhD candidates and supervise junior group members or Master students. You will also be introduced to and participate in the teaching activities of the Institute (i.e. Practical Laboratory and Histology courses) to gain academic teaching credentials.

Your profile

We are looking forward to applications from highly motivated researchers (m/w/d), who hold a PhD degree in life sciences or a medical degree with at least one publication as first author in a high quality, peer reviewed journal. MD-PhDs with a strong affinity to the natural sciences can be excellent candidates. You should have the ability to work both independently and team oriented, be proficient in English, and have excellent project management and communication skills. Experience with aquatic models, imaging techniques, and teaching experience are a plus. What we value most, however, are commitment, reliability, and – above all – a genuine curiosity and interest in research.

What we offer

Our collaborative, well-funded research team values communication, and an inspiring work environment. We offer an exciting research project in a clinically relevant field funded by the SNSF. We have a track record of uncovering pathomechanisms of genetic disease (Hoff et al., Nat. Genetics, 2013; Getwan, et al., PNAS, 2021) and technological advancements (Voigt et al., Nat. Biotech, 2024; Vladimirov, et al., Nat. Comm, 2024).

Our group is well integrated in the local research environment, member of the Zurich Kidney Center, and well connected to the international Kidney and *Xenopus* communities, with access to outstanding scientific infrastructure and core facilities at both the University of Zurich and the ETH Zurich. We offer excellent opportunities to pursue a career in or outside of academia.





Place of work

Prof. Dr. Soeren Lienkamp Group of Remal Development and Reprogramming University of Zurich and ETH Zurich Institute of Anatomy Winterthurerstrasse 190 (Irchel Campus) CH-8057 Zurich

Contact:

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Start of employment

By arrangement, ideally before August 1st 2025. Please <u>submit your application here</u>, including a cover letter that highlights some past accomplishments (not necessary research related), CV, publication list and recommendation letters or contact details of at least one reference by June 15th 2025.